



April 4th, 2016

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Re: **RG&E Pavilion former MGP Site # V00592-8**
Pavilion Remedial Investigation Report

Dear Ms. Saucier/Mr. Ushe:

As required and in support of the investigation activities at the Pavilion former MGP Site (# V00592-8, we are pleased to submit the Pavilion former MGP site Remedial Investigation Report.

We appreciate your consideration in this matter.

If you have questions or concerns, please do not hesitate to contact me at (585) 771-4560 or by email at christopher_keipper@rge.com, or Shane Blauvelt, Parsons Project Manager at (315) 552-9675 or by email at Shane.Blauvelt@parsons.com.

Thank you for your support on this project.

Sincerely,

Christopher C. Keipper, PMP
Manager – Programs and Projects
RG&E Environmental Remediation, Electric Capital Delivery

Enclosure

cc: A. Omorogbe, NYSDEC (w/o enclosure)

2016
REMEDIAL INVESTIGATION REPORT

RG&E Pavilion
Former Manufactured Gas Plant – Property #1252
Pavilion, New York

NYSDEC Site # V00592-8

Index #: B8-0535-98-07

Prepared for:



ROCHESTER GAS AND ELECTRIC CORPORATION



Prepared by:

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March 2016

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LIST OF ACRONYMS

AWQSGV	Ambient Water Quality Standards and Guidance Values
bgs	below ground surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAMP	Community Air Monitoring Plan
CWG	Carbureted Water Gas
DOT	Department of Transportation
DTW	Depth to Water
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Approval Program
EPA	Environmental Protection Agency
ft	feet / foot
GWQS	Groundwater Quality Standards
IDW	Investigation Derived Waste
JDB&S	J.D. Buckley and Son, Inc.
MGP	Manufactured Gas Plant
MW	Monitoring Well
NAPL	Non-Aqueous Phase Liquid
NTU	Nephelometric Turbidity Units
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	Oxidation Redux Potential
PID	Photoionization Detector
PSA	Preliminary Site Assessment
QC	Quality Control
RG&E	Rochester Gas and Electric Corporation
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
RSL	Regional Screening Levels
SCO	Soil Cleanup Objective
SOP	Standard Operating Procedures

LIST OF ACRONYMS

SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
TD	Total Depth
TOGS	Technical and Operational Guidance Series
TP	Test Pit
VCA	Voluntary Cleanup Agreement
VOC	Volatile Organic Compound

1.0 INTRODUCTION

This Remedial Investigation Report (RIR) has been prepared for Rochester Gas and Electric Corporation (RG&E) by Parsons for a Site located at 6903 Ellicott Street Road in the Town of Pavilion, Genesee County, New York (Site). The RIR has been prepared in accordance with New York State Department of Environmental Conservation (NYSDEC) DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010). The location of the Site is shown on Figure 1. Historical records indicate that a manufactured gas plant (MGP) operated at the Site between 1927 and 1937.

The investigation of the Site is being conducted pursuant to a NYSDEC Multi-Site Voluntary Cleanup Agreement (VCA) between RG&E and the NYSDEC, Index # B8-0535-98-07, which was executed on December 23, 2014, and in accordance with applicable guidelines of the NYSDEC, the New York State Department of Health (NYSDOH), the United States Environmental Protection Agency (EPA), and the National Contingency Plan. Remedial investigation activities performed were conducted in accordance with the Remedial Investigation Work Plan prepared by GEI Consultants (GEI, 2015).

1.1 Site Overview

RG&E currently identifies the Site as the Pavilion Operations Center. The facility houses office space, worker training and vehicle and equipment storage. A portion of the Site is utilized for gas pressure regulation and odorant storage. Prior to RG&E ownership, the Site had been a MGP operated by the Pavilion Natural Gas Company from 1927 - 1937.

The Site is located off of New York State Route 63 (also known as Ellicott Street Road) and is legally known as Part of Lot 10, Sections 2 and 3, Craigie Tract, Town of Pavilion. Access to the land-locked Site is through an easement assigned by J.D. Buckley and Son, Inc. (JDB&S, Inc.). The area surrounding the Site includes both industrial and agricultural property usage.

The Site encompasses approximately three acres and currently consists of one large stucco building, three concrete block buildings, and a metal clad building (Figure 2). The remainder of the Site consists of a storage yard, parking areas and grassy plots. A chain-link fence surrounds a rectangular-shaped portion of the property, enclosing the parking areas, buildings and storage yard. Farm fields bound the property to the north and east. Railroad tracks border the Site to the west. These tracks have been identified on historic documents as the Buffalo, Rochester and Pittsburgh Railway Company, and the Baltimore and Ohio Railroad. A cement/aggregate distribution facility operated by Hanson North America, Inc. exists west of the railroad tracks. An agricultural products warehouse and distribution center operated by JDB&S, Inc. is located south of the Site.

1.2 Site History

Based upon the review of available historical information, the Site operated as an MGP beginning in the mid-1920s through the late 1930s and included a single main MGP building housing the water gas sets, the boiler room and the pump/compressor rooms. Other structures

and equipment included a tar separator, two gas purifier tanks, three cooling coils, a 200,000 and a 1,000,000 ft³ gas holder, a compression tank, two oil above ground storage tanks, four water gas sets, a meter house, a rail spur, a water tower and a small building identified as a pit room directly south of the main MGP building (Figure 2). Aside from the buildings and the tar separator, MGP processes were decommissioned and removed from the Site. The tar separator is a below-ground, concrete structure (poured concrete construction) that remains on the north side of the large building (Figure 2). A surface watercourse traversing the Site was also shown on historic drawings.

According to historical accounts, the former MGP operations at the Site used a mixture of coke, oil and steam to produce gas, which is consistent with a carbureted water gas (CWG) manufacturing process. The source of water to the Site is believed to be surface water pumped from Oatka Creek through a pipeline and stored in the on-Site water tower. MGP residual disposal practices for the Site are not documented.

After MGP Site closure in the late 1930s, the MGP processes, including above ground piping and structures for the gasholders, gas purifier tanks, and water tank, were decommissioned and removed from the Site in the 1960s. In the late 1970s to early 1980s, three approximately 500-gallon above ground storage tanks for vehicular fueling were added to the southeast portion of the site. These tanks are no longer present on the property.

1.3 Previous Investigations

Two phases of investigation work were previously performed at the Site. Geomatrix performed a Phase I Environmental Site Assessment in May 2001 (Geomatrix, 2001). The Phase I identified potential recognized environmental conditions stemming from the historical Site usage consistent with an MGP. Subsequently, a Preliminary Site Assessment (PSA) (Geomatrix, 2002) was performed by Geomatrix in 2002. The PSA has been included as Appendix A. The PSA included the completion of several borings, the installation of monitoring wells and the completion of test pits in areas of the Site where historical MGP processes were documented. An electromagnetic survey of the Site was also completed as part of the 2002 PSA, with the goal of mapping the distribution of buried metals and piping associated with the former MGP. Investigations conducted as part of the PSA are described below.

1.3.1 Geophysical Survey

The PSA included a geophysical survey of the subsurface which was performed to map the distribution of any buried conductive metal with the goal of identifying subsurface structures and piping potentially acting as source areas or preferred pathways for MGP residuals. The results of the geophysical survey are provided as Figures 4 and 5 in the PSA (Appendix A). The geophysical survey identified several subsurface anomalies which were subsequently targeted during a test-pit investigation.

1.3.2 Test Pits

Geomatrix completed fourteen test pits as part of the 2002 PSA investigation, the locations of which are shown on Figure 3. Subsurface soil samples were collected from nine test pits for laboratory analysis. A summary of test pit soil samples and analysis performed for the 2002 PSA is provided in Table 1, with full laboratory data reports as well as test pit logs provided in the PSA included as Appendix A of this report.

1.3.3 Soil Borings and Monitoring Wells

A total of sixteen soil borings were advanced into the native soil during the PSA investigation. Four soil borings were converted into monitoring wells for purposes of groundwater elevation measurement and groundwater sample collection. Subsurface soil samples were collected from six soil borings for laboratory analysis. Soil boring and monitoring well logs installed during the 2002 PSA investigation are provided in Appendix A. A summary of samples and analysis performed for the 2002 PSA soil borings is provided in Table 1.

One round of groundwater sampling was conducted from the four monitoring wells in January 2002. A summary of samples and analysis performed for the 2002 PSA groundwater sampling is provided in Table 1.

1.4 Remedial Investigation Work Plan

Based on the findings of the PSA investigation, a Remedial Investigation Work Plan (RIWP) (GEI, 2015) was developed and a Remedial Investigation (RI) was conducted at the site. A summary of activities completed during the RI are outlined in Section 2. The results of both the PSA and RI are discussed in Section 3 of this report.

2.0 REMEDIAL INVESTIGATION ACTIVITIES

The following section describes the field investigation activities conducted at the Site as part of the RI. Field investigation activities were conducted between October and November 2015, with an additional round of groundwater sampling collected in January 2016, in accordance with procedures in the NYSDEC and NYSDOH-approved *Remedial Investigation Work Plan (RIWP)* (GEI, 2015). The goal of the investigation activities was to determine the presence and extent of impacts from former MGP operations. The investigation activities were implemented in accordance with the terms of the Multi-Site Voluntary Cleanup Agreement (VCA) between RG&E and the NYSDEC, Index # B8-0535-98-07.

The scope of the RI field investigation activities outlined in the RIWP included the installation of soil borings, test pits, soil vapor sample probes, and one additional monitoring well. In addition, the RIWP included the collection of surface soil, subsurface soil, soil vapor, and groundwater samples for laboratory analysis. Surface soil and soil vapor sampling were not conducted due to site constraints described below. During all ground intrusive activities, a Community Air Monitoring Plan (CAMP) was implemented in accordance with the approved Remedial Investigation Work Plan. Sampling locations are shown on Figure 3. Table 1 provides a summary of the samples collected and analyses performed.

2.1 Utility Clearance

Prior to mobilization and field implementation of the RI, a site inspection was conducted to refine the locations of the proposed investigation locations. In addition, as-built drawings were reviewed for access, feasibility, and health and safety considerations. To verify the absence of subsurface utilities at each of the drilling and test pit locations, One Call (Ticket #101555401040) was notified and potentially affected utility members conducted clearance research and utility marking. Additionally, due to the presence of active high volume natural gas transmission lines within the facility property, an independent utility location company was contracted to perform ground penetrating radar and other subsurface locating technologies to further delineate utility locations. No significant changes to proposed soil boring or test pit locations were required following the utility clearance activities. Prior to installation of soil borings, subsurface clearance utilizing a hand auger to a depth of 5 feet (ft) was performed. During hand clearance activities, soil samples were screened for volatile organic compounds (VOCs) using a photoionization detector (PID), their physical characteristics (e.g., soil type, grain size, color, etc.) were described, and any evidence of physical impacts (staining, odor, sheen, free product, etc.) were recorded on the boring/well logs provided in Appendix B.

2.2 Surface Soil Sampling

The RIWP described a vegetative cover limited to a small triangular shaped area at the extreme southern boundary of the facility outside of the chain-link security fence where three surface soil samples were to be collected. However, a visual inspection of this area revealed that the area is covered by gravel and is used as a storage area for heavy equipment. Based on these observations, collection of surface soil samples was not performed.

2.3 Subsurface Soil Sampling

2.3.1 Soil Borings

A total of fourteen soil borings were advanced during the RI activities to further delineate the nature and extent of MGP impacts in subsurface soils. Soil borings were advanced by TREC Environmental under the supervision of Parsons. Completed soil boring locations are shown on Figure 3, with corresponding boring logs presented in Appendix B. No significant changes to proposed soil boring locations or depths (i.e., target of 20 ft) were required.

Soil samples were collected on a continuous basis utilizing a track mounted Geoprobe® drill rig with 5-foot long, 2-inch diameter Macro-Cores samplers. Each sample was screened for the presence of VOCs using a PID and logged, with results of the PID included in the boring logs. Physical characteristics of each sample were recorded (e.g., soil type, color, texture, moisture content, etc.), along with physical evidence of any impacted material (e.g., oil-like or tar-like non-aqueous phase liquid (NAPL), staining, sheens, odors, etc).

Soil boring samples were submitted to Chemtech Consulting Group, Inc. of Mountainside, NJ (Chemtech) (a NYSDOH, ELAP certified laboratory) and analyzed for Target Compound List (TCL) VOCs, TCL Semivolatile Organic Compounds (SVOCs), cyanide, target analyte list (TAL) metals, and mercury. Additionally, approximately 50% of the soil boring samples were submitted for analyses for polychlorinated biphenyls (PCBs), herbicides, and pesticides in accordance with the RIWP. A summary of the soil samples collected and analyses performed is provided in Table 1. In accordance with the RIWP, two soil samples were collected for laboratory analysis from each of the soil borings based on the following criteria:

- One sample was collected from the most apparently impacted interval based on PID screening and field observations. If elevated PID readings were not observed, a sample was collected from the upper portion of the boring or directly above the water table.
- A second sample was collected from the bottom of the soil boring to confirm “non-impacted” conditions.

Upon completion, the soil borings were filled to the surface with bentonite chips. Non-disposable drilling and sampling equipment was decontaminated between boring locations. Drill cuttings and decontamination water was containerized in 55-gallon steel drums and handled as described in Section 2.10.

2.3.2 Test Pits

A total of three test pits were completed to depths ranging from 4 to 6 ft below ground surface (bgs) utilizing a small tracked excavator. Each test pit was logged for the presence of fill material, subsurface structures/piping, geologic units, description of fill material, presence of water, PID results, and visual and olfactory observations regarding the presence of MGP-related residuals or other petroleum impacted soils. A field sketch and photographic documentation was completed for each test pit. Completed test pit locations are shown on Figure 3, with

corresponding test pit logs and pictures presented in Appendix C. In accordance with the RIWP, at least one soil sample was collected for laboratory analysis from each of the test pit locations.

Test pit soil samples were submitted to Chemtech and analyzed for TCL VOCs, TCL SVOCs, cyanide, TAL metals, mercury, PCBs, herbicides, and pesticides. A summary of the soil samples collected and analyses performed is provided in Table 1. Below is a brief description of rationale for completion of each test pit:

- TP-15 was completed to assess potential petroleum or MGP-related impacts to soil or groundwater adjacent to former AST locations on the east side of the site. No visual impacts or odors were noted. One sample was collected from a depth of 3 ft.
- TP-16 was completed to assess potential MGP-related impacts near the former gas purifiers. No visual impacts or odors were noted. One sample was collected from a depth of 4 ft.
- TP-17 was completed to assess potential MGP-related impacts to soil or groundwater identified during the 2002 PSA Investigation in the area of the former Tar Separator. Two samples were collected from the TP-17 location. One sample was collected from a depth of 3 ft where soil and fill materials were observed with staining and a petroleum sheen. A second sample was collected from the underlying clay at a depth of 6 ft. Although staining and sheens were observed in this test pit, only two compounds were detected above unrestricted SCOs (acetone and benzo(a)anthracene), and no compounds were detected above commercial SCOs.

Test pits were completed by placing excavated soils and materials on poly sheeting adjacent to the excavation. Upon completion, the test pit locations were backfilled to original grade.

2.4 Existing Monitoring Well Assessment

During the 2002 PSA investigation, four monitoring wells were installed to identify potential MGP-related impacts to soil or groundwater. Prior to collection of additional groundwater samples for the RI, each well was inspected to assess well integrity and usability. The visual inspection consisted of observations of the protective casings, well pads, casing locks, and expandable well caps. Based on the inspection, some minor repairs were made to the well pad at MW-1 but all four of the monitoring wells were deemed useable. Depth to water (DTW) and the total depth (TD) measurements were collected at each well and are shown on Table 2. The water level indicator utilized for the DTW and TD measurements had the capability to record any petroleum or MGP-related NAPL that may have been on top or bottom of the water column.

2.5 Monitoring Well Installation

In accordance with the RIWP, an additional monitoring well (MW-05) was installed to assess soil and groundwater quality at the northern site boundary, down gradient of the former gas holders and above ground storage tanks.

MW-05 was installed in accordance with Section 4 of the RIWP to a depth of approximately 15.5 ft bgs. The monitoring well was constructed with 2-inch ID, threaded, flush-joint, PVC casing and 0.01-inch slot screens. The annular space around the well screen was backfilled with a No. 2 sand filter pack extending from the bottom of the well to at least 1.5 ft above the top of the screen. The annular space around the well riser was sealed with at least 1 foot of hydrated bentonite pellets on top of the sand pack. The remainder of the boring was backfilled with cement-bentonite grout to approximately 1 foot below grade. MW-05 was completed with a locking stick up protective casing set in concrete. The Well Construction Log for MW-05 is presented in Appendix B. The location of the newly-installed MW-05 is shown on Figure 3.

2.6 Monitoring Well Development

Each of the four existing monitoring wells as well as the newly-installed MW-05 were developed to evacuate fine grained sediments and determine if stabilization water quality parameters could be achieved. MW-05 well development was conducted at least 24 hours after installation. Each monitoring well was developed until reasonably free of sediment and until turbidity measurements were less than 50 nephelometric turbidity units (NTUs), and the measurements of water quality parameters [i.e., pH, temperature, and conductivity] stabilized. The water quality parameters were measured and recorded approximately every 5 minutes until stabilization was achieved. Stabilization was considered to be achieved when three successive measurements of the water quality parameters were within 10%. Well development logs are provided in Appendix D.

2.7 Groundwater Sampling

Two groundwater sampling events were conducted during the RI. One in November 2015 and a second in January 2016. Groundwater samples were collected during both events from the four existing monitoring wells (MW-01, MW-02, MW-03, and MW-04) and the newly-installed monitoring well MW-05. Prior to the sampling events, the depths to groundwater, top of NAPL (if any), and bottom of well were measured relative to the top of well casing using an electronic oil/water interface probe accurate to 0.01 foot. Table 2 provides a summary of the groundwater level measurements and elevations during the sampling events.

Groundwater sampling was conducted in accordance with the January 19, 2010 *USEPA Region 1 Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells*. Prior to purging and immediately after removing the locking well cap, the concentration of total VOCs present in the headspace air of each well was measured using a PID. Each well was purged using a peristaltic pump and low-flow purging

techniques with dedicated tubing until stabilization of water quality parameters (including temperature, conductivity, pH, dissolved oxygen, oxidation redux potential (ORP), and turbidity) was achieved, allowing for the collection of a representative groundwater sample. Water quality parameter measurements and observations were recorded on groundwater sampling field forms, which are provided in Appendix D.

Groundwater samples were submitted to Chemtech for analysis of TCL VOCs, TCL SVOCs, TAL Metals, total cyanide, PCBs, herbicides, and pesticides. Non-dedicated sampling equipment (e.g., oil/water interface probe) was decontaminated between wells. Water generated during well purging and equipment decontamination was placed in 55-gallon drums and handled as described in Section 2.10.

2.8 Soil Vapor Intrusion Investigation

To evaluate the potential for exposure pathways of VOCs in soil gas at the site to indoor air at the office building and the training building, soil gas samples were proposed in the RIWP for six locations. The proposed soil gas sampling locations are shown on Figure 06 of the RIWP. Soil gas sampling results were to be compared to NYSDOH indoor air background levels and USEPA Industrial Air Regional Screening Levels (RSLs) with an attenuation factor for soil vapor to indoor air.

Prior to installing the soil vapor sample probes, hand clearance was performed at the six proposed sampling locations. Groundwater was found to be at very shallow elevations adjacent to both buildings. Approximate groundwater elevation measurements for the six proposed locations are summarized below:

- | | |
|------------------------|-------------|
| • Training Bldg. NW | 1.67 ft bgs |
| • Training Bldg. SW | 2.90 ft bgs |
| • Training Bldg. South | 2.80 ft bgs |
| • Office Bldg. North | 1.85 ft bgs |
| • Office Bldg. West | 2.20 ft bgs |
| • Office Bldg. South | 2.60 ft bgs |

Soil gas samples were to be collected in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion (NYSDOH, 2006) at depths ranging from 4 to 5 ft bgs. As noted in the NYSDOH guidance document, “soil vapor probes should be sealed above the sampling zone with a bentonite slurry for a minimum distance of 3 ft to prevent outdoor air infiltration...” Due to the shallow groundwater table elevations noted above, this was not feasible as documented in an e-mail dated October 30, 2015 to the NYSDEC. Therefore, soil vapor samples were not collected. Additionally, based on data obtained during this RIR, soil vapor intrusion is not anticipated to be a problem at this site.

2.9 Site Survey

At the conclusion of the site subsurface sampling activities and monitoring well installation, Thew Associates PE-LS, PLLC, a licensed New York state land surveyor mobilized to the Site and surveyed the horizontal and vertical location of each new soil boring, monitoring well, and test pit location. Two elevation measurements were taken at each well location to identify the top of the PVC casing and the grade elevation. The survey elevations were measured to an accuracy of 0.01 ft above the National Geodetic Vertical Datum of 1988 (NGVD 1988). Horizontal coordinates were surveyed relative to the New York State Plane North American Datum of 1983 (NAD83).

2.10 Investigation-Derived Waste Characterization and Disposal

Investigation-derived waste (IDW), which included decontamination wash and rinse water, soil cuttings, purge water, and used personal protective equipment was containerized in Department of Transportation (DOT)-approved 55-gallon drums. The drums were sealed at the end of each work day and labeled with the date, and the type of waste (e.g., drill cuttings, purge water). Representative waste characterization samples of both IDW soil and water were collected. Waste characterization samples for both IDW soil and water indicated non-hazardous classification. IDW soils were transported for disposal to Mill Seat Landfill in Bergen, NY. IDW water was transported for disposal to the Canandaigua Water Treatment Plant in Canandaigua, NY. All IDW transport and disposal was completed in accordance with applicable local, state, and federal regulations.

2.11 Community Air Monitoring

Community air monitoring was performed to provide real-time measurements of total VOCs and particulate (airborne dust) concentrations in air at the downwind perimeter of the site and at the upwind Site boundary during intrusive investigation activities. The monitoring is designed to provide protection for the downwind community, including both residences and businesses, from potential releases of airborne constituents. Additionally, on site personnel monitored downwind perimeter areas to determine if any odors were being produced as a result of the investigation activities. The CAMP was completed in accordance with the RIWP and the New York State Department of Health Generic Air Monitoring Plan (May 2010). No air quality concerns measured by the CAMP or odors occurred as a result of investigative activities on site during the RI.

2.12 Data Validation and Reporting

Data validation was performed in accordance with the USEPA Region II standard operating procedures (SOPs) for organic and inorganic data review which were in effect at the time of data validation (USEPA, 2012a, 2012b, 2012c, 2013a, 2013b, 2013c, and 2013d). These validation guidelines are regional modifications to the National Functional Guidelines for organic and inorganic data review (USEPA, 2013e, 2013f). Validation included the following:

- Verification of 100% of all quality control (QC) sample results (both qualitative and quantitative);
- Verification of the identification of 100% of all sample results (both positive hits and non-detects);
- Recalculation of 10% of all investigative sample results; and
- Preparation of a Data Usability Summary Report (DUSR).

The quality of the data has been assessed and is documented in the DUSR provided in Appendix E. In summary, the results of the data usability assessment show that the collected analytical data for soil and groundwater are valid for the intended purposes of the RI.

3.0 REMEDIAL INVESTIGATION RESULTS

This section presents the results of the RI. The goal of the RI was to further delineate the extent of impacts related to former MGP operations identified during the previous Phase I Environmental Site Assessment Report and the Preliminary Site Assessment Report. Field observations are summarized below and followed by a review of the analytical data for the soil and groundwater samples collected.

3.1 Site Conditions

Information regarding the Site topography, geology, and hydrogeology is summarized below.

3.1.1 Ground Surface Topography

A survey of the Site was performed in April 2014 by Labella Associates, PC from Rochester, New York. Survey data indicate that the Site has a generally flat topography with a gentle slope (approximately 2 ft across the Site) toward the northwest (Figure 2). The surface cover material at the site is made up of primarily weathered asphalt and/or crushed stone.

3.1.2 Site Surface Water Flow

Surface water in the vicinity of the main MGP building, office building and locker rooms is collected by a series of catch basins and transferred westward to an outlet in a drainage swale adjacent to the railroad property. Due to the relatively flat topography, surface water in other areas of the Site tends to collect in depressions in the weathered asphalt/crushed stone surface before infiltrating into the subsurface. Shallow drainage swales bordering the Site to the north, west and east mitigate surface water flow onto the property from adjacent parcels during heavy precipitation events.

3.1.3 Site Geology

Based on the test pit and soil boring program performed by Geomatrix during the PSA and Parsons during the RI, the Site is generally underlain by a layer of fill material with a thickness of 2 to 3 ft. The fill material generally consists of gravel, sand, coal fragments, wood, ash and brick fragments. As observed in the soil borings completed to a depth of 20 ft during the RI, native soils below fill generally consist of silt and clay with poorly graded sand and some gravel.

New York State Bedrock Geology Mapping provided by the NYS Museum indicates the Site is underlain by clastic and carbonate rocks of the Hamilton Group. Bedrock was not encountered during the PSA or RI. Therefore, bedrock is at depths greater than 20 ft in the immediate vicinity of the Site.

3.1.4 Site Hydrogeology

Saturated conditions were encountered between approximately 1 and 7 ft bgs during the PSA and RI investigations. Groundwater elevations measured during the PSA and RI are

generally consistent and indicate a shallow hydraulic gradient across the Site with groundwater flow in a northwesterly direction toward Oatka Creek. In addition, a localized hydraulic high appears to be present at MW-4 as shown on Figure 4. Groundwater recharge at the Site appears to occur through the crushed stone/weathered asphalt.

3.2 MGP Structures and Visual Impacts Observed

During the test pit and soil boring installations, the foundations of the former gas holders were confirmed in the northern portions of the Site (TP-6, TP-10, B-1, B-2, SB-6, and SB-8). The holder foundations are concrete and located approximately 1 to 2 ft below existing grade. The location of the tar separator was identified in the TP-2 series of test pits completed along the northwestern corner of the main MGP building. At TP-15 a concrete pad was observed about 1 foot below existing grade in the location of the suspected former above ground high pressure gas storage tank. At TP-16 the top of the gas purifier was located approximately 1 foot below existing grade. Miscellaneous piping and other metal debris was encountered in several other test pits.

The location of a former surface water course described in the 2002 PSA, shown on Figure 3 of that report, was investigated on the downgradient side of the main MGP building through excavation of test pit TP-1. Soil conditions encountered in TP-1 were not indicative of a preferential pathway suggestive of contaminant migration.

Petroleum-impacted soils were identified during the PSA in the area of the tar separator (Figure 2). Soils in the immediate vicinity of the tar separator exhibited a strong hydrocarbon odor with a petroleum sheen present on groundwater in test pits TP-2, 2A and 2B and soil borings B-11 and B-12. NAPL was also observed on soil and water present within the tar separator. TP-17 installed during the RI also showed the presence of NAPL adjacent to the tar separator consistent with observations made during the PSA. Visual impacts to soil and groundwater were not observed in the adjacent soil borings associated with MW-2 and SB-10 to the west, test pit TP-3 to the east, SB-12 or SB-13 to the south west, or SB-9 to the north east. This suggests the impacts are limited to the soil/fill and groundwater immediately adjacent to the tar separator.

During the PSA investigation, petroleum-type odors were identified in test pits and soil borings completed in the vicinity of the former above ground storage tanks and the odors were generally limited to the unsaturated soil and fill material (B-3, B-4, B-9 and TP-11). Although odors were noted during the PSA, no staining, NAPL, or sheens were documented. The area around the former above ground storage tanks was further investigated during the RI. Soil borings SB-4 and SB-5 were advanced east and west, respectively, and test pit TP-15 was installed north of the former above ground storage tanks during the RI. Some odors and sheens were noted in soil boring SB-5. However, no MGP-related compounds were detected above unrestricted SCOs in soil samples collected from SB-4, SB-5 or TP-15.

Iron-oxide coated wood chips, potentially used as gas purifier media, were observed in several test pits excavated in the northwestern portion of the Site. A sample of the wood chips

was submitted for chemical analysis from test pit TP-5 and results are provided in Appendix A. As summarized on Figure 5, some VOCs and SVOCs were detected above unrestricted SCOs at this location. However, no compounds were detected above commercial SCOs. In addition, cyanide was below unrestricted SCOs.

3.3 Analytical Results

3.3.1 Subsurface Soil Samples

During the PSA, 16 test pits and 12 soil borings were installed and a total of 15 soil samples were collected. Table 1 presents a summary of analyses performed on each of these samples. A detailed description of the PSA analytical program results is presented in Appendix A and summarized below.

During the RI, fourteen soil borings and three test pits were installed and a total of thirty-two soil samples were collected. Table 1 presents a summary of analyses performed on each of these samples. Results of the RI soil sampling are presented in Table 3 and summarized below.

Soil results from the PSA and RI are compared to the Soil Cleanup Objectives (SCOs) per 6 NYCRR Part 375 (NYSDEC, 2006) for unrestricted and commercial site use. Use of unrestricted and commercial SCOs is considered to be conservative since the site is currently used for industrial purposes, and will be for the foreseeable future. The subsurface soil analytical data and field observations are summarized below.

3.3.1.1 VOCs

Combining the PSA and RI samples, a total of thirty-six soil samples were analyzed for VOCs, with an additional seven analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX). VOCs were detected in fifteen of these samples exceeding the Part 375 unrestricted SCOs. Of the fifteen soil samples with detections above unrestricted SCOs, seven samples reported a single compound exceedance for acetone, which is a common laboratory contaminate. Excluding acetone, the VOCs detected on site above unrestricted SCOs include benzene, toluene, and xylenes. No VOCs were detected exceeding the commercial SCOs. Exceedances of SCOs for VOCs are summarized on Figure 5.

3.3.1.2 SVOCs

Combining the PSA and RI samples, a total of thirty-seven soil samples were analyzed for SVOCs. SVOCs were detected in seven of these samples exceeding the Part 375 unrestricted SCOs. The SVOCs detected on site above unrestricted SCOs include benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene. Only two compounds, benzo(a)pyrene and dibenz(a,h)anthracene, were detected above commercial SCOs. Benzo(a)pyrene was detected above its commercial SCO at two locations, TP-2B and TP-10. Dibenz(a,h)anthracene was detected above its commercial SCO at one location, TP-2. Exceedances of SCOs for SVOCs are summarized on Figure 5.

3.3.1.3 Total Petroleum Hydrocarbons

During the PSA, five soil samples were collected and analyzed for Total Petroleum Hydrocarbons in the vicinity of the former above ground oil storage tanks. Results ranged from non-detect at B-8 to 21,200 mg/kg at TP-11. Additional investigation was conducted in this area during the RI. Two soil borings (SB-4 and SB-5) and one test pit (TP-15) were installed. No MGP-related compounds were detected above unrestricted SCOs in soil samples collected from SB-4, SB-5 or TP-15.

3.3.1.4 Pesticides, Herbicides, and PCBs

No pesticides, herbicides, or PCBs were detected in any of the twelve soil samples analyzed for these parameters.

3.3.1.5 Inorganics

A total of six PSA soil samples, and thirty-two RI soil samples were analyzed for metals. Of the six PSA samples, five reported exceedances of unrestricted soil clean-up objectives, including two of those samples which also exceeded commercial SCOs (TP-9 for arsenic, cadmium, and lead; TP-10 for arsenic). Of the thirty-two samples analyzed for metals during the RI, no exceedances of unrestricted SCOs were observed.

3.3.2 Groundwater

Samples of groundwater were collected and analyzed from four monitoring wells (MW-1 through MW-4) during the 2002 PSA. All were analyzed for State List VOCs, SVOCs and RCRA Metals (including Total Cyanide). MW-1 was analyzed for additional compounds including nitrate, chlorinated herbicides, and pesticides. Results of the PSA analytical sampling are presented in Appendix A and summarized below.

During the 2015 RI an additional monitoring well was installed (MW-5). The 4 PSA monitoring wells and new RI monitoring well (MW-5) were sampled in November 2015 and January 2016 for VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, and Cyanide. Results of the sampling are presented in Tables 4 and 5 and summarized below.

Analytical results from both the PSA and RI are compared with Class GA groundwater quality standards (GWQS) and guidance values contained in NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 (NYSDEC, 1998). These GWQS and guidance values are protective of groundwater quality assuming that groundwater is used as a source of drinking water. That assumption is not applicable to the Site because groundwater is not used as a source of drinking water. Thus, the use of Class GA standards and guidance values for comparison to Site groundwater is conservative. Field measurements and observations as well as analytical results from the groundwater investigation are summarized below.

3.3.2.1 VOCs

No VOCs were detected in groundwater samples during the PSA or RI.

3.3.2.2 SVOCs

No SVOCs were detected in groundwater samples during the PSA or RI.

3.3.2.3 Pesticides, Herbicides, and PCBs

No pesticides, herbicides, or PCBs were detected in groundwater samples during the PSA or RI.

3.3.2.4 Inorganics

A total of sixteen inorganic compounds were detected in the groundwater samples collected at the Site. Of these, five inorganic compounds were detected at concentrations higher than their respective Class GA AWQSGVs. Inorganics other than cyanide are not typical indicators of past MGP activities. Results for cyanide indicated all detected concentrations were below the GWQS.

4.0 EXPOSURE ASSESSMENT

Information collected during the PSA and RI has been used to qualitatively assess potential exposure pathways for the various detected compounds in site soils, groundwater, and soil gas. The site is located in a relatively remote area with restricted access and zoned as industrial. Most of the site is covered in weathered asphalt/crushed stone and utilized as a parking lot.

Surface soil is not expected to be an exposure pathway at this site. Although surface soil has not been sampled, an exposure pathway is not likely because the site is covered by asphalt/crushed stone and buildings.

Analytical results from subsurface soil samples collected during the PSA and RI activities indicate the commercial SCOs were exceeded at four sample locations (TP-2, TP-2B, TP-9 and TP-10) in soil ranging from 1.5-2 ft bgs. Shallow impacted soils on the Site may be encountered during intrusive maintenance activities (e.g., repair of underground utilities); however, it is unlikely that these materials would be encountered during day-to-day operations because the Site is covered by weathered asphalt/crushed stone. Potential future onsite intrusive activities will be evaluated by RG&E to ensure mitigation of potential human health exposures.

Groundwater analytical results indicate the presence of inorganic concentrations in the monitoring wells at the Site above the GWQS and guidance values. None of the monitoring wells exceeded GWQS for possible MGP or petroleum related VOCs or SVOCs.

Although soil vapor samples could not be collected during the RI due to the proximity of groundwater to site ground surface elevations, the potential for soil vapor to be an exposure pathway is limited. Only two VOCs or SVOCs were detected above commercial SCOs onsite, and no VOCs or SVOCs were detected above Class GA GWQSs. In addition, the onsite office building, which is the building most frequently occupied, is located up-gradient from most of the former MGP structures, as well as any impacts. The training building is located on the up-gradient edge of the 1,000,000 ft³ gasholder. Some soil impacts were observed adjacent to this former gasholder. However, the impacts were relatively shallow (i.e., 1.5 -2 ft bgs) and it is probable that most of the impacted soils in the area of the training building were removed to facilitate construction of the building and the associated concrete floor slab. The training building is also downgradient from the former above ground storage tanks. However, no MGP-related compounds were detected in the area above unrestricted SCOs and as previously noted, groundwater at the site does not appear to be impacted with VOCs or SVOCs. Finally, the training building is not occupied on a regular basis and is utilized as a storage/maintenance area. Based on the lack of potential sources of contaminants to soil vapor in the vicinity of the office training buildings, as well as the minimal occupancy of the training building, we do not expect vapor intrusion to be a pathway of concern.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Based on the results of the PSA and RI activities documented in this report, the following conclusions are noted for the Site.

- Remnants of the former MGP structures are present on the RG&E property.
- NAPL was encountered in one small area onsite adjacent to the former tar separator. NAPL was not observed elsewhere on the site.
- Possible MGP related impacts were encountered in Site soil at concentrations exceeding 6 NYCRR Part 375 unrestricted and industrial SCOs, generally found in two relatively small areas associated with former historic features. Soil samples with concentrations exceeding commercial SCOs were found in areas immediately adjacent to the former tar separator (TP-2 and TP-2B) and 1,000,000 ft³ gas holder (TP-9 and TP-10). The onsite extent of MGP related impacts in soil were effectively delineated during investigation activities.
- Exposure to impacted soils is not anticipated during normal day to day operations at the Site. However, exposure is possible if intrusive activities are conducted at the Site.
- No VOCs or SVOCs were detected in groundwater.

5.2 Recommendations

Based on the PSA and RI activities, no additional investigation is recommended to delineate the impacts identified within the Site. It is recommended that a Remedial Action Work Plan, that includes evaluation of remedial alternatives, be developed subsequent to The Department's acceptance of this report.

6.0 REFERENCES

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TABLES

Table 1
Summary of Chemical Analyses Performed

Remedial Investigation Report
Former Manufactured Gas Plant
Pavilion, New York

				Chemical Analyses Performed											
	Location	Sample ID	Depth (ft bgs)	VOCs	SVOCs	Cyanide	PAHs	BTEX	Metals	TPH	Pesticides	Herbicides	Nitrate	PCBs	
2002 -PSA Test Pit Samples	2002 Soil Samples														
	TP-1	not sampled	n/a												
	TP-2	TP-2	1.5				●	●							
	TP-2A	not sampled	n/a												
	TP-2B	TP-2B	1.5				●	●							
	TP-3	TP-3	1.5-2.0			●	●	●	●						
	TP-4	not sampled	n/a												
	TP-5	TP-5	1.5-2.0			●	●	●	●						
	TP-6	not sampled	n/a												
	TP-7	not sampled	n/a												
	TP-8	not sampled	n/a												
	TP-9	TP-9	2			●	●	●	●						
	TP-10	TP-10	1.5-2.0			●	●	●	●						
	TP-11	TP-11	1.5-2.0	●	●	●			●	●					
	TP-12	TP-12	1.5-2.0	●	●										
TP-13	not sampled	n/a													
TP-14	TP-14	1.5			●	●	●	●							
2002 -PSA Soil Borings	2002 Soil Samples														
	SB-1	SB-1		●	●	●									
	SB-2	SB-2		●	●	●									
	SB-3	not sampled	n/a												
	SB-4	SB-4							●						
	SB-5	not sampled	n/a												
	SB-6	not sampled	n/a												
	SB-7	SB-7							●						
	SB-8	SB-8							●						
	SB-9	not sampled	n/a												
	SB-10	SB-10			●				●						
	SB-11	not sampled	n/a												
	SB-12	not sampled	n/a												
2002 - PSA Groundwater Samples	2002 Groundwater Samples														
	MW-1	MW-1	n/a	●	●	●			●		●	●	●		
	MW-2	MW-2	n/a	●	●	●			●						
	MW-3	MW-3	n/a	●	●	●			●						
	MW-4	MW-4	n/a	●	●	●			●						
2015 RIWP Test Pit Samples	2015 Soil Samples														
	TP-15 (MS/MSD)	TP-15 (3')	3	●	●	●			●		●	●		●	
	TP-16	TP-16 (4')	4	●	●	●			●		●	●		●	
	TP-17 (dup)	TP-17 (3')	3	●	●	●			●		●	●		●	
	TP-17	TP-17(6')	6	●	●	●			●		●	●		●	

Note:

1.) "•" Indicates that the specified chemical analysis was performed on sample, does not correlate to detections or exceedances.

Table 1
Summary of Chemical Analyses Performed

Remedial Investigation Report
Former Manufactured Gas Plant
Pavilion, New York

				Chemical Analyses Performed										
	Location	Sample ID	Depth (ft bgs)	VOCs	SVOCS	Cyanide	PAHs	BTEX	Metals	TPH	Pesticides	Herbicides	Nitrate	PCBs
2015 RIWP Soil Borings	2015 Soil Samples													
	MW-5 (dup)	MW-05 (8-10')	8-10	●	●	●			●		●	●		●
	MW-5	MW-05 (16-18')	16-18	●	●	●			●					
	SB-01	SB-01 (14-16')	14-16	●	●	●			●					
	SB-01	SB-01 (18-20')	18-20	●	●	●			●					
	SB-02	SB-02 (2-4')	2-4	●	●	●			●		●	●		●
	SB-02	SB-02 (14-16')	14-16	●	●	●			●					
	SB-03	SB-03 (16-18')	16-18	●	●	●			●					
	SB-03	SB-03 (18-20')	18-20	●	●	●			●					
	SB-04	SB-04 (2-4')	2-4	●	●	●			●		●	●		●
	SB-04	SB-04 (18-20')	18-20	●	●	●			●					
	SB-05	SB-05 (8-10')	8-10	●	●	●			●		●	●		●
	SB-05	SB-05 (18-20')	18-20	●	●	●			●					
	SB-06	SB-06 (14-16')	14-16	●	●	●			●					
	SB-06	SB-06 (18-20')	18-20	●	●	●			●					
	SB-07 (MS/MSD)	SB-07 (4-6')	4-6	●	●	●			●		●	●		●
	SB-07	SB-07 (22-24')	22-24	●	●	●			●					
	SB-08	SB-08 (10-12')	10-12	●	●	●			●					
	SB-08	SB-08 (18-20')	18-20	●	●	●			●					
	SB-09	SB-09 (12-14')	12-14	●	●	●			●					
	SB-09	SB-09 (18-20')	18-20	●	●	●			●					
	SB-10	SB-10 (2-4')	2-4	●	●	●			●		●	●		●
	SB-10	SB-10 (18-20')	18-20	●	●	●			●					
	SB-11	SB-11 (4-6')	4-6	●	●	●			●		●	●		●
	SB-11	SB-11 (18-20')	18-20	●	●	●			●					
	SB-12	SB-12 (2-4')	2-4	●	●	●			●		●	●		●
	SB-12	SB-12 (18-20')	18-20	●	●	●			●					
	SB-13	SB-13 (10-12')	10-12	●	●	●			●					
	SB-13	SB-13 (18-20')	18-20	●	●	●			●					
2015 RIWP Groundwater Samples - Round 1	2015 Groundwater Samples - November													
	MW-01 (MS/MSD)	MW-01	n/a	●	●	●			●		●	●		●
	MW-02	MW-02	n/a	●	●	●			●		●	●		●
	MW-03	MW-03	n/a	●	●	●			●		●	●		●
	MW-04	MW-04	n/a	●	●	●			●		●	●		●
	MW-05 (dup)	MW-05	n/a	●	●	●			●		●	●		●
2016 RIWP Groundwater Samples - Round 2	2016 Groundwater Samples - January													
	MW-01 (MS/MSD)	MW-01	n/a	●	●	●			●		●	●		●
	MW-02	MW-02	n/a	●	●	●			●		●	●		●
	MW-03	MW-03	n/a	●	●	●			●		●	●		●
	MW-04	MW-04	n/a	●	●	●			●		●	●		●
	MW-05 (dup)	MW-05	n/a	●	●	●			●		●	●		●

Note:

1.) "●" Indicates that the specified chemical analysis was performed on sample, does not correlate to detections or exceedances.

TABLE 2
Gauging Summary

	MW-1	MW-2	MW-3	MW-4	MW-5
Date installed	12/10/2001	12/10/2001	12/10/2001	12/11/2001	10/28/2015
Top of PVC Stick-Up ⁽¹⁾	938.67	935.06	936.37	935.05	937.15
Depth to Water (11/23/2015) ⁽²⁾	6.70	4.40	6.25	1.82	6.82
Elevation of Water (11/23/2015)	931.97	930.66	930.12	933.23	930.33
Depth to Water (1/21/2016) ⁽²⁾	5.94	3.68	5.05	1.3	5.88
Elevation of Water (1/21/2016)	932.73	931.38	931.32	933.75	931.27

Notes:

(1) Elevation surveyed by Thew Associates for 2015 investigation, referenced horizontally to the North American Datum of 1983-2011 Adjustment (NAD83/2011) and vertically to the North American Vertical Datum of 1988 (NAVD88)

(2) Depth to water measured from 2015 top of PVC stick-up elevation.

TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05(8-10)-20151028 G4240-02 8 - 10 ft CTECH G4240 SO 10/28/2015 10:00 2/23/2016	Dup of MW-05(8-10)-20151028 MW-05 MW-105-20151028 G4240-01 8 - 10 ft CTECH G4240 SO 10/28/2015 10:05 2/23/2016	MW-05 MW-05(16-18)-20151028 G4240-03 16 - 18 ft CTECH G4240 SO 10/28/2015 10:15 2/23/2016	SB-01 SB-01(14-16)-20151029 G4240-19 14 - 16 ft CTECH G4240 SO 10/29/2015 17:20 2/23/2016	SB-01 SB-01(18-20)-20151029 G4240-20 18 - 20 ft CTECH G4240 SO 10/29/2015 17:30 2/23/2016	SB-02 SB-02(2-4)-20151029 G4240-16 2 - 4 ft CTECH G4240 SO 10/29/2015 14:45 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
79-34-5	1,1,2,2-TETRACHLOROETHANE	-	-	mg/kg	ND	ND	ND	R	ND	ND
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	-	-	mg/kg	ND	ND	ND	R	ND	ND
79-00-5	1,1,2-TRICHLOROETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
87-61-6	1,2,3-TRICHLOROBENZENE	-	-	mg/kg	ND	ND	ND	R	ND	ND
120-82-1	1,2,4-TRICHLOROBENZENE	-	-	mg/kg	ND	ND	ND	R	ND	ND
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	-	-	mg/kg	ND	ND	ND	R	ND	ND
106-93-4	1,2-DIBROMOETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
95-50-1	1,2-DICHLOROBENZENE	500	1.1	mg/kg	ND	ND	ND	R	ND	ND
78-87-5	1,2-DICHLOROPROPANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
541-73-1	1,3-DICHLOROBENZENE	280	2.4	mg/kg	ND	ND	ND	R	ND	ND
106-46-7	1,4-DICHLOROBENZENE	130	1.8	mg/kg	ND	ND	ND	R	ND	ND
591-78-6	2-HEXANONE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
67-64-1	ACETONE	500	0.05	mg/kg	0.0095 J	ND	ND	0.0343 J+	ND	0.0167 J
71-43-2	BENZENE	44	0.06	mg/kg	ND	ND	ND	ND	ND	ND
75-25-2	BROMOFORM	-	-	mg/kg	ND	ND	ND	ND	ND	ND
75-15-0	CARBON DISULFIDE	-	-	mg/kg	ND	ND	ND	R	ND	ND
56-23-5	CARBON TETRACHLORIDE	22	0.76	mg/kg	ND	ND	ND	ND	ND	ND
108-90-7	CHLOROBENZENE	500	1.1	mg/kg	ND	ND	ND	ND	ND	ND
110-82-7	CYCLOHEXANE	-	-	mg/kg	ND	ND	ND	R	ND	ND
75-71-8	DICHLORODIFLUOROMETHANE	-	-	mg/kg	ND	ND	ND	R	ND	ND
100-41-4	ETHYLBENZENE	390	1	mg/kg	ND	ND	ND	ND	ND	ND
98-82-8	ISOPROPYLBENZENE (CUMENE)	-	-	mg/kg	ND	ND	ND	R	ND	ND
179601-23-1	M,P-XYLENES	500	0.26	mg/kg	ND	ND	ND	ND	ND	ND
79-20-9	METHYL ACETATE	-	-	mg/kg	ND	ND	ND	R	ND	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	500	0.12	mg/kg	ND	ND	ND	R	ND	ND
108-10-1	METHYL ISOBUTYL KETONE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
108-87-2	METHYLCYCLOHEXANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
75-09-2	METHYLENE CHLORIDE	-	0.05	mg/kg	0.0012 J	0.0013 J	ND	0.0027 J	0.0017 J	ND
95-47-6	O-XYLENE	500	0.26	mg/kg	ND	ND	ND	ND	ND	ND
100-42-5	STYRENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
1634-04-4	TERT-BUTYL METHYL ETHER	-	0.93	mg/kg	ND	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	150	1.3	mg/kg	ND	ND	ND	ND	ND	ND
108-88-3	TOLUENE	500	0.7	mg/kg	ND	ND	ND	ND	ND	ND
79-01-6	TRICHLOROETHYLENE (TCE)	200	0.47	mg/kg	ND	ND	ND	ND	ND	ND

= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria

= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

ND = Not Detected

J = Estimated Result

J+ = Estimated Result, biased high

R = Rejected Data

TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

Remedial Investigation Report
Former Manufactured Gas Plant
Pavilion, New York

Iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05(8-10)-20151028 G4240-02 8 - 10 ft CTECH G4240 SO 10/28/2015 10:00 2/23/2016	Dup of MW-05(8-10)-20151028 MW-05 MW-105-20151028 G4240-01 8 - 10 ft CTECH G4240 SO 10/28/2015 10:05 2/23/2016	MW-05 MW-05(16-18)-20151028 G4240-03 16 - 18 ft CTECH G4240 SO 10/28/2015 10:15 2/23/2016	SB-01 SB-01(14-16)-20151029 G4240-19 14 - 16 ft CTECH G4240 SO 10/29/2015 17:20 2/23/2016	SB-01 SB-01(18-20)-20151029 G4240-20 18 - 20 ft CTECH G4240 SO 10/29/2015 17:30 2/23/2016	SB-02 SB-02(2-4)-20151029 G4240-16 2 - 4 ft CTECH G4240 SO 10/29/2015 14:45 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	500	20	mg/kg	ND	ND	ND	ND	ND	ND
208-96-8	ACENAPHTHYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
120-12-7	ANTHRACENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
56-55-3	BENZO(A)ANTHRACENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
50-32-8	BENZO(A)PYRENE	1	1	mg/kg	ND	ND	ND	ND	ND	ND
205-99-2	BENZO(B)FLUORANTHENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
191-24-2	BENZO(G,H,I)PERYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
207-08-9	BENZO(K)FLUORANTHENE	56	0.8	mg/kg	ND	ND	ND	ND	ND	ND
92-52-4	BIPHENYL (DIPHENYL)	-	-	mg/kg	ND	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	-	-	mg/kg	0.1 J	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	56	1	mg/kg	ND	ND	ND	ND	ND	ND
53-70-3	DIBENZ(A,H)ANTHRACENE	0.56	0.33	mg/kg	ND	ND	ND	ND	ND	ND
131-11-3	DIMETHYL PHTHALATE	-	-	mg/kg	0.49	0.51	0.55	0.55	0.54	0.51
206-44-0	FLUORANTHENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
86-73-7	FLUORENE	500	30	mg/kg	ND	ND	ND	ND	ND	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	5.6	0.5	mg/kg	ND	ND	ND	ND	ND	ND
91-20-3	NAPHTHALENE	500	12	mg/kg	ND	ND	ND	ND	ND	ND
85-01-8	PHENANTHRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
129-00-0	PYRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
	PESTICIDES/PCBS/HERBICIDES									
	NONE DETECTED									
	INORGANICS									
7429-90-5	ALUMINUM	-	-	mg/kg	3370	3550	6100	2390	1650	2730
7440-38-2	ARSENIC	16	13	mg/kg	3.5	3.91	4.31	3.22	2.28	3.08
7440-39-3	BARIUM	400	350	mg/kg	18.4	16.9	53.5	20.9	14	15.4
7440-41-7	BERYLLIUM	590	7.2	mg/kg	0.238 J	0.243 J	0.379	0.184 J	0.13 J	0.211 J
7440-43-9	CADMIUM	9.3	2.5	mg/kg	0.234 J	0.252 J	0.318	0.178 J	0.141 J	0.102 J
7440-70-2	CALCIUM	-	-	mg/kg	39100	34500	54000	50800	37400	9750
7440-47-3	CHROMIUM, TOTAL	1500	30	mg/kg	4.87	5.13	9.02	7.3	3.02	4.49
7440-48-4	COBALT	-	-	mg/kg	4.65	5.29	6.51	3.26	2.27	3.46
7440-50-8	COPPER	270	50	mg/kg	14	13.9	12.1	7.8	5.76	10.89
7439-89-6	IRON	-	-	mg/kg	9430	9360	14500	8390	6280	9280
7439-92-1	LEAD	1000	63	mg/kg	6.67	6.31	7.13	3.86	3.28	5.73
7439-95-4	MAGNESIUM	-	-	mg/kg	10400	10600	14500	17500	13500	4850
7439-96-5	MANGANESE	10000	1600	mg/kg	217	226	315	247	192	271
7439-97-6	MERCURY	2.8	0.18	mg/kg	ND	0.021 J	0.017	ND	ND	0.008 J
7440-02-0	NICKEL	310	30	mg/kg	12.7	13.7	17.9	10.1	5.39	10.69
7440-09-7	POTASSIUM	-	-	mg/kg	542	580	1260	500	342	415
7440-22-4	SILVER	1500	2	mg/kg	0.596	0.609	0.964	0.56	0.387 J	0.608
7440-23-5	SODIUM	-	-	mg/kg	130	132	184	125	104	156
7440-62-2	VANADIUM	-	-	mg/kg	7.67	8.29	11.8	7.16	6.23	7.27
7440-66-6	ZINC	10000	109	mg/kg	54.7	55.9	52.7	41.2	37.9	52.8

= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria

= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

ND = Not Detected

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J+ = Estimated Result, biased high

R = Rejected Data

TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

Iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-03 SB-03(16-18)-20151029 G4240-17 16 - 18 ft CTECH G4240 SO 10/29/2015 16:05 2/23/2016	SB-03 SB-03(18-20)-20151029 G4240-18 18 - 20 ft CTECH G4240 SO 10/29/2015 16:10 2/23/2016	SB-04 SB-04(2-4)-20151029 G4240-14 2 - 4 ft CTECH G4240 SO 10/29/2015 14:10 2/23/2016	SB-04 SB-04(18-20)-20151029 G4240-15 18 - 20 ft CTECH G4240 SO 10/29/2015 14:15 2/23/2016	SB-05 SB-05(8-10)-20151029 G4240-12 8 - 10 ft CTECH G4240 SO 10/29/2015 13:05 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
79-34-5	1,1,2,2-TETRACHLOROETHANE	-	-	mg/kg	ND	ND	R	ND	ND	R
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
79-00-5	1,1,2-TRICHLOROETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
87-61-6	1,2,3-TRICHLOROBENZENE	-	-	mg/kg	ND	ND	R	ND	ND	R
120-82-1	1,2,4-TRICHLOROBENZENE	-	-	mg/kg	ND	ND	R	ND	ND	R
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	-	-	mg/kg	ND	ND	R	ND	ND	R
106-93-4	1,2-DIBROMOETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
95-50-1	1,2-DICHLOROBENZENE	500	1.1	mg/kg	ND	ND	R	ND	ND	R
78-87-5	1,2-DICHLOROPROPANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
541-73-1	1,3-DICHLOROBENZENE	280	2.4	mg/kg	ND	ND	R	ND	ND	R
106-46-7	1,4-DICHLOROBENZENE	130	1.8	mg/kg	ND	ND	R	ND	ND	R
591-78-6	2-HEXANONE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
67-64-1	ACETONE	500	0.05	mg/kg	ND	ND	0.0137 J	0.0176 J	0.0213 J	0.17 J+
71-43-2	BENZENE	44	0.06	mg/kg	ND	ND	ND	ND	ND	ND
75-25-2	BROMOFORM	-	-	mg/kg	ND	ND	ND	ND	ND	ND
75-15-0	CARBON DISULFIDE	-	-	mg/kg	0.0019 J	ND	ND	ND	ND	ND
56-23-5	CARBON TETRACHLORIDE	22	0.76	mg/kg	ND	ND	ND	ND	ND	ND
108-90-7	CHLOROBENZENE	500	1.1	mg/kg	ND	ND	ND	ND	ND	ND
110-82-7	CYCLOHEXANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
75-71-8	DICHLORODIFLUOROMETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
100-41-4	ETHYLBENZENE	390	1	mg/kg	ND	ND	ND	ND	ND	ND
98-82-8	ISOPROPYLBENZENE (CUMENE)	-	-	mg/kg	ND	ND	R	ND	ND	0.0024 J
179601-23-1	M,P-XYLENES	500	0.26	mg/kg	ND	ND	ND	ND	ND	ND
79-20-9	METHYL ACETATE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	500	0.12	mg/kg	ND	ND	ND	ND	ND	0.0397 J+
108-10-1	METHYL ISOBUTYL KETONE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
108-87-2	METHYLCYCLOHEXANE	-	-	mg/kg	ND	ND	ND	ND	ND	0.0039 J
75-09-2	METHYLENE CHLORIDE	-	0.05	mg/kg	ND	0.0029 J	ND	ND	ND	0.0016 J
95-47-6	O-XYLENE	500	0.26	mg/kg	ND	ND	ND	ND	ND	ND
100-42-5	STYRENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
1634-04-4	TERT-BUTYL METHYL ETHER	-	0.93	mg/kg	ND	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	150	1.3	mg/kg	ND	ND	ND	ND	ND	ND
108-88-3	TOLUENE	500	0.7	mg/kg	ND	ND	ND	ND	ND	ND
79-01-6	TRICHLOROETHYLENE (TCE)	200	0.47	mg/kg	ND	ND	ND	ND	ND	ND

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2015 - Summary of Remedial Investigation Soil Analytical Data

Iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-03 SB-03(16-18)-20151029 G4240-17 16 - 18 ft CTECH G4240 SO 10/29/2015 16:05 2/23/2016	SB-03 SB-03(18-20)-20151029 G4240-18 18 - 20 ft CTECH G4240 SO 10/29/2015 16:10 2/23/2016	SB-04 SB-04(2-4)-20151029 G4240-14 2 - 4 ft CTECH G4240 SO 10/29/2015 14:10 2/23/2016	SB-04 SB-04(18-20)-20151029 G4240-15 18 - 20 ft CTECH G4240 SO 10/29/2015 14:15 2/23/2016	SB-05 SB-05(8-10)-20151029 G4240-12 8 - 10 ft CTECH G4240 SO 10/29/2015 13:05 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	500	20	mg/kg	ND	ND	ND	ND	ND	ND
208-96-8	ACENAPHTHYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
120-12-7	ANTHRACENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
56-55-3	BENZO(A)ANTHRACENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
50-32-8	BENZO(A)PYRENE	1	1	mg/kg	ND	ND	ND	ND	ND	ND
205-99-2	BENZO(B)FLUORANTHENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
191-24-2	BENZO(G,H,I)PERYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
207-08-9	BENZO(K)FLUORANTHENE	56	0.8	mg/kg	ND	ND	ND	ND	ND	ND
92-52-4	BIPHENYL (DIPHENYL)	-	-	mg/kg	ND	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	56	1	mg/kg	ND	ND	ND	ND	ND	ND
53-70-3	DIBENZ(A,H)ANTHRACENE	0.56	0.33	mg/kg	ND	ND	ND	ND	ND	ND
131-11-3	DIMETHYL PHTHALATE	-	-	mg/kg	0.85	0.61	0.48	0.46	0.6	0.98
206-44-0	FLUORANTHENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
86-73-7	FLUORENE	500	30	mg/kg	ND	ND	ND	ND	ND	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	5.6	0.5	mg/kg	ND	ND	ND	ND	ND	ND
91-20-3	NAPHTHALENE	500	12	mg/kg	ND	ND	ND	ND	ND	ND
85-01-8	PHENANTHRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
129-00-0	PYRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
	PESTICIDES/PCBS/HERBICIDES									
	NONE DETECTED									
	INORGANICS									
7429-90-5	ALUMINUM	-	-	mg/kg	3430	3090	1940	7620	1580	4850
7440-38-2	ARSENIC	16	13	mg/kg	3.65	3.8	2.74	5.27	2.04	3.76
7440-39-3	BARIUM	400	350	mg/kg	31.1	22.4	16	103	10.92	61.4
7440-41-7	BERYLLIUM	590	7.2	mg/kg	0.249 J	0.254 J	0.156 J	0.554	0.12 J	0.373
7440-43-9	CADMIUM	9.3	2.5	mg/kg	0.2 J	0.267 J	0.206 J	0.527	0.112 J	0.224 J
7440-70-2	CALCIUM	-	-	mg/kg	61200	43900	45700	4970	36900	30100
7440-47-3	CHROMIUM, TOTAL	1500	30	mg/kg	5.61	5.32	3.64	11.7	2.87	7.71
7440-48-4	COBALT	-	-	mg/kg	4.06	3.75	2.83	9.1	2.26	5.02
7440-50-8	COPPER	270	50	mg/kg	8.42	10.57	8.23	10.67	5.88	9.25
7439-89-6	IRON	-	-	mg/kg	10600	12300	7410	24500	5850	14500
7439-92-1	LEAD	1000	63	mg/kg	8.26	13.2	4.87	18.6	4.02	11.7
7439-95-4	MAGNESIUM	-	-	mg/kg	16800	13700	16700	2590	12500	2930
7439-96-5	MANGANESE	10000	1600	mg/kg	274	548	237	809	185	282
7439-97-6	MERCURY	2.8	0.18	mg/kg	ND	0.011 J	ND	0.069	ND	0.036
7440-02-0	NICKEL	310	30	mg/kg	10.56	10.61	7.2	23.4	5.66	12.7
7440-09-7	POTASSIUM	-	-	mg/kg	760	566	400	620	356	467
7440-22-4	SILVER	1500	2	mg/kg	0.638	0.833	0.461 J	1.81	0.351 J	0.969
7440-23-5	SODIUM	-	-	mg/kg	171	109	114	74.3 J	103 J	284
7440-62-2	VANADIUM	-	-	mg/kg	9.65	7.54	7.15	16.4	5.65	12.4
7440-66-6	ZINC	10000	109	mg/kg	39	43.9	40.9	136	40.5	71.6

= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria

= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

ND = Not Detected

J = Estimated Result

J+ = Estimated Result, biased high

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Remedial Investigation Report
Former Manufactured Gas Plant
Pavilion, New York

	= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria
	= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

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2015 - Summary of Remedial Investigation Soil Analytical Data

Iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-05 SB-05(18-20)-20151029 G4240-13 18 - 20 ft CTECH G4240 SO 10/29/2015 13:10 2/23/2016	SB-06 SB-06(14-16)-20151028 G4240-06 14 - 16 ft CTECH G4240 SO 10/28/2015 14:40 2/23/2016	SB-06 SB-06(18-20)-20151028 G4240-07 18 - 20 ft CTECH G4240 SO 10/28/2015 14:45 2/23/2016	SB-07 SB-07(4-6)-20151028 G4240-08 4 - 6 ft CTECH G4240 SO 10/28/2015 16:05 2/23/2016	SB-07 SB-07(22-24)-20151028 G4240-11 22 - 24 ft CTECH G4240 SO 10/28/2015 16:15 2/23/2016	SB-08 SB-08(10-12)-20151028 G4240-04 10 - 12 ft CTECH G4240 SO 10/28/2015 13:50 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	500	20	mg/kg	ND	ND	ND	ND	ND	ND
208-96-8	ACENAPHTHYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
120-12-7	ANTHRACENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
56-55-3	BENZO(A)ANTHRACENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
50-32-8	BENZO(A)PYRENE	1	1	mg/kg	ND	ND	ND	ND	ND	ND
205-99-2	BENZO(B)FLUORANTHENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
191-24-2	BENZO(G,H,I)PERYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
207-08-9	BENZO(K)FLUORANTHENE	56	0.8	mg/kg	ND	ND	ND	ND	ND	ND
92-52-4	BIPHENYL (DIPHENYL)	-	-	mg/kg	ND	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	56	1	mg/kg	ND	ND	ND	ND	ND	ND
53-70-3	DIBENZ(A,H)ANTHRACENE	0.56	0.33	mg/kg	ND	ND	ND	ND	ND	ND
131-11-3	DIMETHYL PHTHALATE	-	-	mg/kg	0.68	0.49	0.47	0.56	0.43	0.66
206-44-0	FLUORANTHENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
86-73-7	FLUORENE	500	30	mg/kg	ND	ND	ND	ND	ND	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	5.6	0.5	mg/kg	ND	ND	ND	ND	ND	ND
91-20-3	NAPHTHALENE	500	12	mg/kg	ND	ND	ND	ND	ND	ND
85-01-8	PHENANTHRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
129-00-0	PYRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
	PESTICIDES/PCBS/HERBICIDES									
	NONE DETECTED									
	INORGANICS									
7429-90-5	ALUMINUM	-	-	mg/kg	1870	5780	4420	5400	2200	3690
7440-38-2	ARSENIC	16	13	mg/kg	2.5	3.89	4.24	4.94	2.67	3.78
7440-39-3	BARIUM	400	350	mg/kg	12.3	63.3	41	75.9 J	22.2	22.8
7440-41-7	BERYLLIUM	590	7.2	mg/kg	0.141 J	0.382	0.318	0.411	0.166 J	0.244 J
7440-43-9	CADMIUM	9.3	2.5	mg/kg	0.127 J	0.347	0.182 J	0.279 J	0.151 J	0.215 J
7440-70-2	CALCIUM	-	-	mg/kg	37700	66800	33400	3730 J	43500	39700
7440-47-3	CHROMIUM, TOTAL	1500	30	mg/kg	3.28	8.42	6.89	8.59	4.28	5.35
7440-48-4	COBALT	-	-	mg/kg	2.43	6.58	5.06	6.7	2.73	4.37
7440-50-8	COPPER	270	50	mg/kg	6	10.85	12.8	7.8	6.41	12
7439-89-6	IRON	-	-	mg/kg	5560	14500	12600	16800	7490	10500
7439-92-1	LEAD	1000	63	mg/kg	2.94	7.58	8.22	10.41	6.36	5.84
7439-95-4	MAGNESIUM	-	-	mg/kg	10500	20500	10100	1940 J	12800	12300
7439-96-5	MANGANESE	10000	1600	mg/kg	170	323	304	711 J	217	259
7439-97-6	MERCURY	2.8	0.18	mg/kg	ND	0.026	ND	0.014 J	ND	0.036
7440-02-0	NICKEL	310	30	mg/kg	6.98	18	15.3	15.6	7.34	11.9
7440-09-7	POTASSIUM	-	-	mg/kg	419	1270	774	497 J	480	646
7440-22-4	SILVER	1500	2	mg/kg	0.319 J	0.924	0.829	1.19	0.451 J	0.696
7440-23-5	SODIUM	-	-	mg/kg	108	190	172	43.6 J	120	137
7440-62-2	VANADIUM	-	-	mg/kg	5.45	12.1	9.94	14.5	6.51	8.11
7440-66-6	ZINC	10000	109	mg/kg	31.3	44.5	52.4	72.3	46	45.7

= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria

= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

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TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

Iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-08 SB-08(18-20)-20151028 G4240-05 18 - 20 ft CTECH G4240 SO 10/28/2015 14:00 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
79-34-5	1,1,2,2-TETRACHLOROETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
79-00-5	1,1,2-TRICHLOROETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
87-61-6	1,2,3-TRICHLOROBENZENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
120-82-1	1,2,4-TRICHLOROBENZENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
106-93-4	1,2-DIBROMOETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
95-50-1	1,2-DICHLOROBENZENE	500	1.1	mg/kg	ND	ND	ND	ND	ND	ND
78-87-5	1,2-DICHLOROPROPANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
541-73-1	1,3-DICHLOROBENZENE	280	2.4	mg/kg	ND	ND	ND	ND	ND	ND
106-46-7	1,4-DICHLOROBENZENE	130	1.8	mg/kg	ND	ND	ND	ND	ND	ND
591-78-6	2-HEXANONE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
67-64-1	ACETONE	500	0.05	mg/kg	ND	0.0801	0.0139 J	0.51	0.0269 J	0.0303
71-43-2	BENZENE	44	0.06	mg/kg	ND	ND	ND	ND	ND	ND
75-25-2	BROMOFORM	-	-	mg/kg	ND	ND	ND	ND	ND	ND
75-15-0	CARBON DISULFIDE	-	-	mg/kg	ND	0.0039 J	ND	0.0124	0.0016 J	ND
56-23-5	CARBON TETRACHLORIDE	22	0.76	mg/kg	ND	ND	ND	ND	ND	ND
108-90-7	CHLOROBENZENE	500	1.1	mg/kg	ND	ND	ND	ND	ND	ND
110-82-7	CYCLOHEXANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
75-71-8	DICHLORODIFLUOROMETHANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
100-41-4	ETHYLBENZENE	390	1	mg/kg	ND	ND	ND	ND	ND	ND
98-82-8	ISOPROPYLBENZENE (CUMENE)	-	-	mg/kg	ND	ND	ND	ND	ND	ND
179601-23-1	M,P-XYLENES	500	0.26	mg/kg	ND	ND	ND	ND	ND	ND
79-20-9	METHYL ACETATE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	500	0.12	mg/kg	ND	ND	ND	0.0879	ND	ND
108-10-1	METHYL ISOBUTYL KETONE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
108-87-2	METHYLCYCLOHEXANE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
75-09-2	METHYLENE CHLORIDE	-	0.05	mg/kg	ND	ND	ND	ND	ND	ND
95-47-6	O-XYLENE	500	0.26	mg/kg	ND	ND	ND	ND	ND	ND
100-42-5	STYRENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
1634-04-4	TERT-BUTYL METHYL ETHER	-	0.93	mg/kg	ND	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	150	1.3	mg/kg	ND	ND	ND	ND	ND	ND
108-88-3	TOLUENE	500	0.7	mg/kg	ND	ND	ND	ND	0.0049 J	ND
79-01-6	TRICHLOROETHYLENE (TCE)	200	0.47	mg/kg	ND	ND	ND	ND	ND	ND

ND = Not Detected

J = Estimated Result

J+ = Estimated Result, biased high

R = Rejected Data

TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

Iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-08 SB-08(18-20)-20151028 G4240-05 18 - 20 ft CTECH G4240 SO 10/28/2015 14:00 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	500	20	mg/kg	ND	ND	ND	ND	ND	0.52
208-96-8	ACENAPHTHYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	0.14 J
120-12-7	ANTHRACENE	500	100	mg/kg	ND	ND	ND	ND	ND	0.14 J
56-55-3	BENZO(A)ANTHRACENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
50-32-8	BENZO(A)PYRENE	1	1	mg/kg	ND	ND	ND	ND	ND	ND
205-99-2	BENZO(B)FLUORANTHENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
191-24-2	BENZO(G,H,I)PERYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
207-08-9	BENZO(K)FLUORANTHENE	56	0.8	mg/kg	ND	ND	ND	ND	ND	ND
92-52-4	BIPHENYL (DIPHENYL)	-	-	mg/kg	ND	ND	ND	ND	ND	0.18 J
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	56	1	mg/kg	ND	ND	ND	ND	ND	ND
53-70-3	DIBENZ(A,H)ANTHRACENE	0.56	0.33	mg/kg	ND	ND	ND	ND	ND	ND
131-11-3	DIMETHYL PHTHALATE	-	-	mg/kg	0.53	0.65	0.35 J	0.64	0.57	0.53
206-44-0	FLUORANTHENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
86-73-7	FLUORENE	500	30	mg/kg	ND	ND	ND	ND	ND	1.1
193-39-5	INDENO(1,2,3-C,D)PYRENE	5.6	0.5	mg/kg	ND	ND	ND	ND	ND	ND
91-20-3	NAPHTHALENE	500	12	mg/kg	ND	ND	ND	ND	ND	ND
85-01-8	PHENANTHRENE	500	100	mg/kg	ND	ND	ND	ND	ND	0.21 J
129-00-0	PYRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
	PESTICIDES/PCBS/HERBICIDES									
	NONE DETECTED									
	INORGANICS									
7429-90-5	ALUMINUM	-	-	mg/kg	2910	6870	2800	8920	2090	5230
7440-38-2	ARSENIC	16	13	mg/kg	3.02	5.56	3.02	4.27	2.4	6.94
7440-39-3	BARIUM	400	350	mg/kg	28.6	69.3	19.7	81.2	20.3	29.7
7440-41-7	BERYLLIUM	590	7.2	mg/kg	0.2 J	0.493	0.199 J	0.53	0.148 J	0.393
7440-43-9	CADMIUM	9.3	2.5	mg/kg	0.154 J	0.359	0.177 J	0.098 J	0.133 J	0.115 J
7440-70-2	CALCIUM	-	-	mg/kg	48300	49200	40400	4910	39800	2730
7440-47-3	CHROMIUM, TOTAL	1500	30	mg/kg	4.72	9.49	4.8	12.8	3.36	8.56
7440-48-4	COBALT	-	-	mg/kg	3.58	7.06	3.33	5.02	2.35	7.05
7440-50-8	COPPER	270	50	mg/kg	6.78	10.27	9.99	13.4	5.67	17.4
7439-89-6	IRON	-	-	mg/kg	8670	19400	8470	20500	6020	16700
7439-92-1	LEAD	1000	63	mg/kg	4.56	14.1	5.35	16.6	2.73	13
7439-95-4	MAGNESIUM	-	-	mg/kg	13900	4440	10800	2490	10900	2610
7439-96-5	MANGANESE	10000	1600	mg/kg	255	246	216	153	174	161
7439-97-6	MERCURY	2.8	0.18	mg/kg	ND	0.032	ND	0.051	ND	0.011 J
7440-02-0	NICKEL	310	30	mg/kg	8.71	18.5	9.11	16.8	6.93	20.3
7440-09-7	POTASSIUM	-	-	mg/kg	610	827	509	744	512	694
7440-22-4	SILVER	1500	2	mg/kg	0.537	1.22	0.513	1.38	0.35 J	1.14
7440-23-5	SODIUM	-	-	mg/kg	128	239	142	373	114	157
7440-62-2	VANADIUM	-	-	mg/kg	7.68	14.6	7.41	16.6	5.75	11.7
7440-66-6	ZINC	10000	109	mg/kg	32.8	86.8	44.5	124	36.9	72.9

= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria

= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

ND = Not Detected

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J+ = Estimated Result, biased high

R = Rejected Data

TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

Iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
79-34-5	1,1,2,2-TETRACHLOROETHANE	-	-	mg/kg	ND	0.0036 J	ND	ND	ND	ND
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	-	-	mg/kg	ND	0.0021 J	ND	ND	ND	ND
79-00-5	1,1,2-TRICHLOROETHANE	-	-	mg/kg	ND	0.0019 J	ND	ND	ND	ND
87-61-6	1,2,3-TRICHLOROBENZENE	-	-	mg/kg	ND	0.0024 J	ND	ND	ND	ND
120-82-1	1,2,4-TRICHLOROBENZENE	-	-	mg/kg	ND	0.0016 J	ND	ND	ND	ND
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	-	-	mg/kg	ND	0.0049 J	ND	ND	ND	ND
106-93-4	1,2-DIBROMOETHANE	-	-	mg/kg	ND	0.0015 J	ND	ND	ND	ND
95-50-1	1,2-DICHLOROBENZENE	500	1.1	mg/kg	ND	0.0031 J	ND	ND	ND	ND
78-87-5	1,2-DICHLOROPROPANE	-	-	mg/kg	ND	0.0016 J	ND	ND	ND	ND
541-73-1	1,3-DICHLOROBENZENE	280	2.4	mg/kg	ND	0.0024 J	ND	ND	ND	ND
106-46-7	1,4-DICHLOROBENZENE	130	1.8	mg/kg	ND	0.0026 J	ND	ND	ND	ND
591-78-6	2-HEXANONE	-	-	mg/kg	ND	0.014 J	ND	ND	ND	ND
67-64-1	ACETONE	500	0.05	mg/kg	0.0122 J	0.32	0.0186 J	0.0233 J	0.0379	0.14
71-43-2	BENZENE	44	0.06	mg/kg	ND	0.0045 J	ND	ND	ND	ND
75-25-2	BROMOFORM	-	-	mg/kg	ND	0.0019 J	ND	ND	ND	ND
75-15-0	CARBON DISULFIDE	-	-	mg/kg	ND	0.0069 J	0.0014 J	ND	ND	ND
56-23-5	CARBON TETRACHLORIDE	22	0.76	mg/kg	ND	0.0018 J	ND	ND	ND	ND
108-90-7	CHLOROBENZENE	500	1.1	mg/kg	ND	0.0019 J	ND	ND	ND	ND
110-82-7	CYCLOHEXANE	-	-	mg/kg	ND	0.0047 J	ND	ND	ND	0.0181
75-71-8	DICHLORODIFLUOROMETHANE	-	-	mg/kg	ND	0.0017 J	ND	ND	ND	ND
100-41-4	ETHYLBENZENE	390	1	mg/kg	ND	0.0025 J	ND	ND	ND	ND
98-82-8	ISOPROPYLBENZENE (CUMENE)	-	-	mg/kg	ND	0.0039 J	ND	ND	ND	0.0519
179601-23-1	M,P-XYLENES	500	0.26	mg/kg	0.0015 J	0.0055 J	ND	ND	ND	0.0122 J
79-20-9	METHYL ACETATE	-	-	mg/kg	ND	0.0057 J	ND	ND	ND	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	500	0.12	mg/kg	ND	0.0583	ND	ND	ND	ND
108-10-1	METHYL ISOBUTYL KETONE	-	-	mg/kg	ND	0.0152 J	ND	ND	ND	ND
108-87-2	METHYLCYCLOHEXANE	-	-	mg/kg	ND	0.0088	ND	ND	ND	0.1 J
75-09-2	METHYLENE CHLORIDE	-	0.05	mg/kg	ND	ND	ND	ND	ND	ND
95-47-6	O-XYLENE	500	0.26	mg/kg	ND	0.0029 J	ND	ND	ND	0.0018 J
100-42-5	STYRENE	-	-	mg/kg	ND	0.0017 J	ND	ND	ND	ND
1634-04-4	TERT-BUTYL METHYL ETHER	-	0.93	mg/kg	ND	0.002 J	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	150	1.3	mg/kg	ND	0.0029 J	ND	ND	ND	ND
108-88-3	TOLUENE	500	0.7	mg/kg	0.0038 J	0.003 J	ND	ND	ND	0.0017 J
79-01-6	TRICHLOROETHYLENE (TCE)	200	0.47	mg/kg	ND	0.0017 J	ND	ND	ND	ND

ND = Not Detected

J = Estimated Result

J+ = Estimated Result, biased high

R = Rejected Data

TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

Iberdrola Pavilion Site 2015 Validated Soil Data Detected Compound Summary				Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	-	-	mg/kg	ND	ND	ND	ND	ND	0.71
83-32-9	ACENAPHTHENE	500	20	mg/kg	ND	ND	ND	ND	ND	ND
208-96-8	ACENAPHTHYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
120-12-7	ANTHRACENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
56-55-3	BENZO(A)ANTHRACENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
50-32-8	BENZO(A)PYRENE	1	1	mg/kg	ND	ND	ND	ND	ND	ND
205-99-2	BENZO(B)FLUORANTHENE	5.6	1	mg/kg	ND	ND	ND	ND	ND	ND
191-24-2	BENZO(G,H,I)PERYLENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
207-08-9	BENZO(K)FLUORANTHENE	56	0.8	mg/kg	ND	ND	ND	ND	ND	ND
92-52-4	BIPHENYL (DIPHENYL)	-	-	mg/kg	ND	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	-	-	mg/kg	ND	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	56	1	mg/kg	ND	ND	ND	ND	ND	ND
53-70-3	DIBENZ(A,H)ANTHRACENE	0.56	0.33	mg/kg	ND	ND	ND	ND	ND	ND
131-11-3	DIMETHYL PHTHALATE	-	-	mg/kg	0.61	0.78	0.62	0.65	0.61	0.77
206-44-0	FLUORANTHENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
86-73-7	FLUORENE	500	30	mg/kg	ND	ND	ND	ND	ND	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	5.6	0.5	mg/kg	ND	ND	ND	ND	ND	ND
91-20-3	NAPHTHALENE	500	12	mg/kg	ND	ND	ND	ND	ND	ND
85-01-8	PHENANTHRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
129-00-0	PYRENE	500	100	mg/kg	ND	ND	ND	ND	ND	ND
	PESTICIDES/PCBS/HERBICIDES									
	NONE DETECTED									
	INORGANICS									
7429-90-5	ALUMINUM	-	-	mg/kg	1970	7770	2540	2130	1930	10000 J
7440-38-2	ARSENIC	16	13	mg/kg	2.46	5.89	2.48	2.94	2.36	4.91
7440-39-3	BARIUM	400	350	mg/kg	18	96	19	12.6	14.5	119 J
7440-41-7	BERYLLIUM	590	7.2	mg/kg	0.137 J	0.612	0.175 J	0.159 J	0.167 J	0.6
7440-43-9	CADMIUM	9.3	2.5	mg/kg	0.105 J	0.378	0.11 J	0.125 J	0.134 J	0.313 J
7440-70-2	CALCIUM	-	-	mg/kg	36800	6650	42000	42700	37500	2980 J
7440-47-3	CHROMIUM, TOTAL	1500	30	mg/kg	4.27	10.27	4.53	3.69	3.77	13.2 J
7440-48-4	COBALT	-	-	mg/kg	2.24	6.91	2.93	2.59	2.24	8.77 J-
7440-50-8	COPPER	270	50	mg/kg	6.86	17.7	6.54	6.81	6.45	11.3 J
7439-89-6	IRON	-	-	mg/kg	5890	17400	7820	7150	6190	26800
7439-92-1	LEAD	1000	63	mg/kg	3.16	21.8	3.58	3.47	3.37	18.4
7439-95-4	MAGNESIUM	-	-	mg/kg	11900	2080	14500	15200	12800	2850 J
7439-96-5	MANGANESE	10000	1600	mg/kg	179	105	219	214	190	878 J
7439-97-6	MERCURY	2.8	0.18	mg/kg	ND	0.039	ND	ND	ND	0.072
7440-02-0	NICKEL	310	30	mg/kg	6.04	19.8	7.46	6.41	5.86	23 J-
7440-09-7	POTASSIUM	-	-	mg/kg	446	726	595	502	467	798 J-
7440-22-4	SILVER	1500	2	mg/kg	0.337 J	1.17	0.463 J	0.409 J	0.34 J	1.94 J-
7440-23-5	SODIUM	-	-	mg/kg	129	421	137	207	181	91 J
7440-62-2	VANADIUM	-	-	mg/kg	6.01	14.2	7.73	7.39	6.5	19.2 J-
7440-66-6	ZINC	10000	109	mg/kg	39.9	110	40.8	38	37.7	153

= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria

= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

ND = Not Detected

J = Estimated Result

J+ = Estimated Result, biased high

R = Rejected Data

TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

							Dup of TP-17(3)-20151029		
iberdrola Pavillion Site 2015 Validated Soil Data Detected Compound Summary					Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	TP-16 TP-16(4)-20151029 G4241-04 4 - 4 ft CTECH G4241 SO 10/29/2015 17:45 2/23/2016	TP-17 TP-17(3)-20151029 G4241-01 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-117(3)-20151029 G4241-02 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-17(6)-20151029 G4241-03 6 - 6 ft CTECH G4241 SO 10/29/2015 17:40 2/23/2016
CAS NO.	COMPOUND				UNITS:				
	VOLATILES								
79-34-5	1,1,2,2-TETRACHLOROETHANE	-	-	mg/kg	ND	ND	ND	ND	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	-	-	mg/kg	ND	ND	ND	ND	
79-00-5	1,1,2-TRICHLOROETHANE	-	-	mg/kg	ND	ND	ND	ND	
87-61-6	1,2,3-TRICHLOROBENZENE	-	-	mg/kg	ND	ND	ND	ND	
120-82-1	1,2,4-TRICHLOROBENZENE	-	-	mg/kg	ND	ND	ND	ND	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	-	-	mg/kg	ND	ND	ND	ND	
106-93-4	1,2-DIBROMOETHANE	-	-	mg/kg	ND	ND	ND	ND	
95-50-1	1,2-DICHLOROBENZENE	500	1.1	mg/kg	ND	ND	ND	ND	
78-87-5	1,2-DICHLOROPROPANE	-	-	mg/kg	ND	ND	ND	ND	
541-73-1	1,3-DICHLOROBENZENE	280	2.4	mg/kg	ND	ND	ND	ND	
106-46-7	1,4-DICHLOROBENZENE	130	1.8	mg/kg	ND	ND	ND	ND	
591-78-6	2-HEXANONE	-	-	mg/kg	ND	ND	ND	ND	
67-64-1	ACETONE	500	0.05	mg/kg	0.22	0.42	0.35	0.0556	
71-43-2	BENZENE	44	0.06	mg/kg	ND	ND	ND	ND	
75-25-2	BROMOFORM	-	-	mg/kg	ND	ND	ND	ND	
75-15-0	CARBON DISULFIDE	-	-	mg/kg	0.0091	0.0053 J	0.0098	ND	
56-23-5	CARBON TETRACHLORIDE	22	0.76	mg/kg	ND	ND	ND	ND	
108-90-7	CHLOROBENZENE	500	1.1	mg/kg	ND	ND	ND	ND	
110-82-7	CYCLOHEXANE	-	-	mg/kg	ND	0.0046 J	0.0131 J	ND	
75-71-8	DICHLORODIFLUOROMETHANE	-	-	mg/kg	ND	ND	ND	ND	
100-41-4	ETHYLBENZENE	390	1	mg/kg	ND	ND	0.002 J	ND	
98-82-8	ISOPROPYLBENZENE (CUMENE)	-	-	mg/kg	ND	0.0119 J	0.0233 J	0.0017 J	
179601-23-1	M,P-XYLENES	500	0.26	mg/kg	ND	0.0194 J	0.0408 J	ND	
79-20-9	METHYL ACETATE	-	-	mg/kg	ND	ND	ND	ND	
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	500	0.12	mg/kg	0.0468	0.11	0.0806	0.0077 J	
108-10-1	METHYL ISOBUTYL KETONE	-	-	mg/kg	ND	ND	ND	ND	
108-87-2	METHYLCYCLOHEXANE	-	-	mg/kg	ND	0.0083 J	0.0172 J	0.0017 J	
75-09-2	METHYLENE CHLORIDE	-	0.05	mg/kg	ND	ND	ND	ND	
95-47-6	O-XYLENE	500	0.26	mg/kg	ND	0.0217 J	0.0459 J	ND	
100-42-5	STYRENE	-	-	mg/kg	ND	ND	ND	ND	
1634-04-4	TERT-BUTYL METHYL ETHER	-	0.93	mg/kg	ND	ND	ND	ND	
127-18-4	TETRACHLOROETHYLENE(PCE)	150	1.3	mg/kg	ND	ND	ND	ND	
108-88-3	TOLUENE	500	0.7	mg/kg	ND	0.002 J	0.0038 J	ND	
79-01-6	TRICHLOROETHYLENE (TCE)	200	0.47	mg/kg	ND	ND	ND	ND	

= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria

= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

ND = Not Detected

J = Estimated Result

J+ = Estimated Result, biased high

R = Rejected Data

TABLE 3
2015 - Summary of Remedial Investigation Soil Analytical Data

							Dup of TP-17(3)-20151029		
Iberdrola Pavillion Site 2015 Validated Soil Data Detected Compound Summary					Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	TP-16 TP-16(4)-20151029 G4241-04 4 - 4 ft CTECH G4241 SO 10/29/2015 17:45 2/23/2016	TP-17 TP-17(3)-20151029 G4241-01 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-117(3)-20151029 G4241-02 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-17(6)-20151029 G4241-03 6 - 6 ft CTECH G4241 SO 10/29/2015 17:40 2/23/2016
CAS NO.	COMPOUND				UNITS:				
SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	-	-	mg/kg	ND	0.64	0.98	ND	
83-32-9	ACENAPHTHENE	500	20	mg/kg	ND	1.4	1.6	ND	
208-96-8	ACENAPHTHYLENE	500	100	mg/kg	ND	0.57	0.68	ND	
120-12-7	ANTHRACENE	500	100	mg/kg	ND	1.3	2 J	ND	
56-55-3	BENZO(A)ANTHRACENE	5.6	1	mg/kg	ND	1	1.1	ND	
50-32-8	BENZO(A)PYRENE	1	1	mg/kg	ND	0.91	0.97	ND	
205-99-2	BENZO(B)FLUORANTHENE	5.6	1	mg/kg	ND	0.68	0.91	ND	
191-24-2	BENZO(G,H,I)PERYLENE	500	100	mg/kg	ND	0.58	0.57	ND	
207-08-9	BENZO(K)FLUORANTHENE	56	0.8	mg/kg	ND	0.38 J	0.27 J	ND	
92-52-4	BIPHENYL (DIPHENYL)	-	-	mg/kg	ND	0.13 J	0.24 J	ND	
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	-	-	mg/kg	ND	ND	ND	ND	
218-01-9	CHRYSENE	56	1	mg/kg	ND	0.81	0.95	ND	
53-70-3	DIBENZ(A,H)ANTHRACENE	0.56	0.33	mg/kg	ND	0.11 J	0.0959 J	ND	
131-11-3	DIMETHYL PHTHALATE	-	-	mg/kg	0.59	0.72	0.75	0.53	
206-44-0	FLUORANTHENE	500	100	mg/kg	ND	1.8	2.1	ND	
86-73-7	FLUORENE	500	30	mg/kg	ND	1.3	1.8	ND	
193-39-5	INDENO(1,2,3-C,D)PYRENE	5.6	0.5	mg/kg	ND	0.5 J	0.45 J	ND	
91-20-3	NAPHTHALENE	500	12	mg/kg	ND	1.1	1.2	ND	
85-01-8	PHENANTHRENE	500	100	mg/kg	ND	3.8	5.9	ND	
129-00-0	PYRENE	500	100	mg/kg	ND	2.4	2.8	ND	
PESTICIDES/PCBS/HERBICIDES									
NONE DETECTED									
INORGANICS									
7429-90-5	ALUMINUM	-	-	mg/kg	8530	5150	5580	9690	
7440-38-2	ARSENIC	16	13	mg/kg	4.62	6.59	5.01	3.63	
7440-39-3	BARIUM	400	350	mg/kg	68.8	50.5	56.3	76.3	
7440-41-7	BERYLLIUM	590	7.2	mg/kg	0.553	0.387	0.391	0.555	
7440-43-9	CADMIUM	9.3	2.5	mg/kg	0.166 J	0.268 J	0.138 J	0.392	
7440-70-2	CALCIUM	-	-	mg/kg	3120	10600 J	3710 J	54300	
7440-47-3	CHROMIUM, TOTAL	1500	30	mg/kg	11.6	7.61	7.83	12.3	
7440-48-4	COBALT	-	-	mg/kg	6.38	5.28	4.47	10.38	
7440-50-8	COPPER	270	50	mg/kg	8.21	19.3	15.1	12.2	
7439-89-6	IRON	-	-	mg/kg	24000	14400	15400	19400	
7439-92-1	LEAD	1000	63	mg/kg	15.7	19.4	13	8.74	
7439-95-4	MAGNESIUM	-	-	mg/kg	2540	2610	1920	13700	
7439-96-5	MANGANESE	10000	1600	mg/kg	311	200	130	595	
7439-97-6	MERCURY	2.8	0.18	mg/kg	0.092	0.053	0.039	0.037	
7440-02-0	NICKEL	310	30	mg/kg	19.5	15.8	14.2	24.3	
7440-09-7	POTASSIUM	-	-	mg/kg	673	469	451	1560	
7440-22-4	SILVER	1500	2	mg/kg	1.66	0.929	0.995	1.26	
7440-23-5	SODIUM	-	-	mg/kg	201	158	151	215	
7440-62-2	VANADIUM	-	-	mg/kg	15.4	12	13.1	17	
7440-66-6	ZINC	10000	109	mg/kg	121	77.9	75.7	56.5	

= Exceedance of NYSDEC Part 375 Unrestricted Soil Criteria

= Exceedance of NYSDEC Part 375 Commercial Soil Criteria

ND = Not Detected

J = Estimated Result

J+ = Estimated Result, biased high

R = Rejected Data

TABLE 4
2015 - Summary of Remedial Investigation Groundwater Analytical Data
Round 1

Remedial Investigation Report
Former Manufactured Gas Plant
Pavilion, New York

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20151123 G4587-01 CTECH G4587 WATER 11/23/2015 10:40 2/23/2016	MW-02 MW-02-20151123 G4587-04 CTECH G4587 WATER 11/23/2015 15:30 2/23/2016	MW-03 MW-03-20151124 G4587-05 CTECH G4587 WATER 11/24/2015 10:05 2/23/2016	MW-04 MW-04-20151123 G4587-06 CTECH G4587 WATER 11/23/2015 14:00 2/23/2016	MW-05 MW-05-20151124 G4587-07 CTECH G4587 WATER 11/24/2015 12:15 2/23/2016	Dup of MW-05-20151124 MW-05 MW-105-20151124 G4587-08 CTECH G4587 WATER 11/24/2015 14:15 2/23/2016
CAS NO.	COMPOUND		UNITS:						
	VOLATILES								
	NONE DETECTED								
	SEMIVOLATILES								
	NONE DETECTED								
	PESTICIDES/HERBICIDES/PCBs								
	NONE DETECTED								
	INORGANICS								
7429-90-5	ALUMINUM	-	ug/l	58.9	77.2	51.6	55.6	74.6	86
7440-38-2	ARSENIC	25	ug/l	ND	7.53 J	ND	5.98 J	3.14 J	3.9 J
7440-39-3	BARIUM	1000	ug/l	79.4 J+	445	87	385	219	211
7440-70-2	CALCIUM	-	ug/l	109700 J	188400	71100	74200	172500	166400
7440-47-3	CHROMIUM, TOTAL	50	ug/l	ND	ND	ND	ND	1.3 J	ND
7439-89-6	IRON	300	ug/l	347	11900	44.5 J	5690	995	932
7439-95-4	MAGNESIUM	35000 (G)	ug/l	38300	14700	7820	8660	21400	20700
7439-96-5	MANGANESE	300	ug/l	96.5 J	982	207	861	678	639
7439-97-6	MERCURY	0.7	ug/l	ND	0.291	ND	0.119 J	ND	ND
7440-02-0	NICKEL	100	ug/l	ND	ND	ND	7 J	ND	ND
7440-09-7	POTASSIUM	-	ug/l	1960 J	5720	2920	2600	4400	4190
7782-49-2	SELENIUM	10	ug/l	14 J+	10.25 J+	16.8 J+	12.2 J+	17.6 J+	14.6 J+
7440-23-5	SODIUM	20000	ug/l	34900	370100	92400	277400	219300	211000
7440-66-6	ZINC	2000 (G)	ug/l	34.1	6.23 J	ND	ND	ND	ND
57-12-5	CYANIDE	200	ug/l	ND	21	27	ND	10	11
CAN	CYANIDE, AMENABLE	200	ug/l	ND	ND	7	ND	ND	ND

= Exceedance of NYSDEC Class GA Groundwater Standard

(G) = Guidance Value

ND = Not Detected

J = Estimated Result

J+ = Estimated Result, biased high

TABLE 5
2016 - Summary of Remedial Investigation Groundwater Analytical Data
Round 2

Remedial Investigation Report
Former Manufactured Gas Plant
Pavilion, New York

Iberdrola Pavillion Site 2016 Validated Groundwater Data - Round 2 SDG: H1201 Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20160120 H1201-01 CTECH H1201 WATER 1/20/2016 11:00 2/23/2016	MW-02 MW-02-20160121 H1201-04 CTECH H1201 WATER 1/21/2016 9:20 2/23/2016	MW-03 MW-03-20160121 H1201-05 CTECH H1201 WATER 1/21/2016 11:30 2/23/2016	MW-04 MW-04-20160120 H1201-06 CTECH H1201 WATER 1/20/2016 14:00 2/23/2016	MW-05 MW-05-20160121 H1201-07 CTECH H1201 WATER 1/21/2016 14:00 2/23/2016	Dup of MW-05-20160121 MW-05 MW-105-20160121 H1201-08 CTECH H1201 WATER 1/21/2016 15:00 2/23/2016
CAS NO.	COMPOUND		UNITS:						
	VOLATILES								
	NONE DETECTED								
	SEMIVOLATILES								
	NONE DETECTED								
	PESTICIDES/HERBICIDES/PCBs								
	NONE DETECTED								
	INORGANICS								
7429-90-5	ALUMINUM	-	ug/l	228	131	78.1	96.5	149	122
7440-38-2	ARSENIC	25	ug/l	ND	3.7 J	ND	7.12 J	4.75 J	4.26 J
7440-39-3	BARIUM	1000	ug/l	70.3	385	76.7	417	180	170
7440-70-2	CALCIUM	-	ug/l	98700	185000	70300	88100	157000	150000
7440-47-3	CHROMIUM, TOTAL	50	ug/l	5.27 J	39	26.3	8.11	10.68	7.91
7439-89-6	IRON	300	ug/l	263	11500	120	9870	2030 J	1100 J
7439-95-4	MAGNESIUM	35000 (G)	ug/l	30100	14100	7420	9870	18100	17300
7439-96-5	MANGANESE	300	ug/l	64.3	1010	238	922	494	463
7439-97-6	MERCURY	0.7	ug/l	ND	0.486	ND	0.244	ND	ND
7440-02-0	NICKEL	100	ug/l	4.56 J	9.01 J	6.99 J	9.74 J	6.64 J	6.03 J
7440-09-7	POTASSIUM	-	ug/l	3360	4710	2400	2140	3270	3110
7782-49-2	SELENIUM	10	ug/l	7.51 J	6.79 J	10.14	7.79 J	7.74 J	9.26 J
7440-23-5	SODIUM	20000	ug/l	45100	377000	87900	306000	202000	194000
7440-66-6	ZINC	2000 (G)	ug/l	42.9	7.68 J	8.31 J	ND	ND	5.23 J
57-12-5	CYANIDE	200	ug/l	ND	7	14	ND	4 J	9 J

= Exceedance of NYSDEC Class GA Groundwater Standard

(G) = Guidance Value

ND = Not Detected

J = Estimated Result

FIGURES



0 0.5 1 2 Miles



Pavilion, NY

New York Quadrangle

Source: Map created with USA
Topo Maps basemap from ARCGIS.



FIGURE 1

RG&E Pavilion RI Work Plan
Pavilion Former MGP
Pavilion, New York

SITE LOCATION MAP

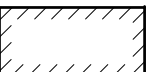
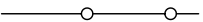
PARSONS

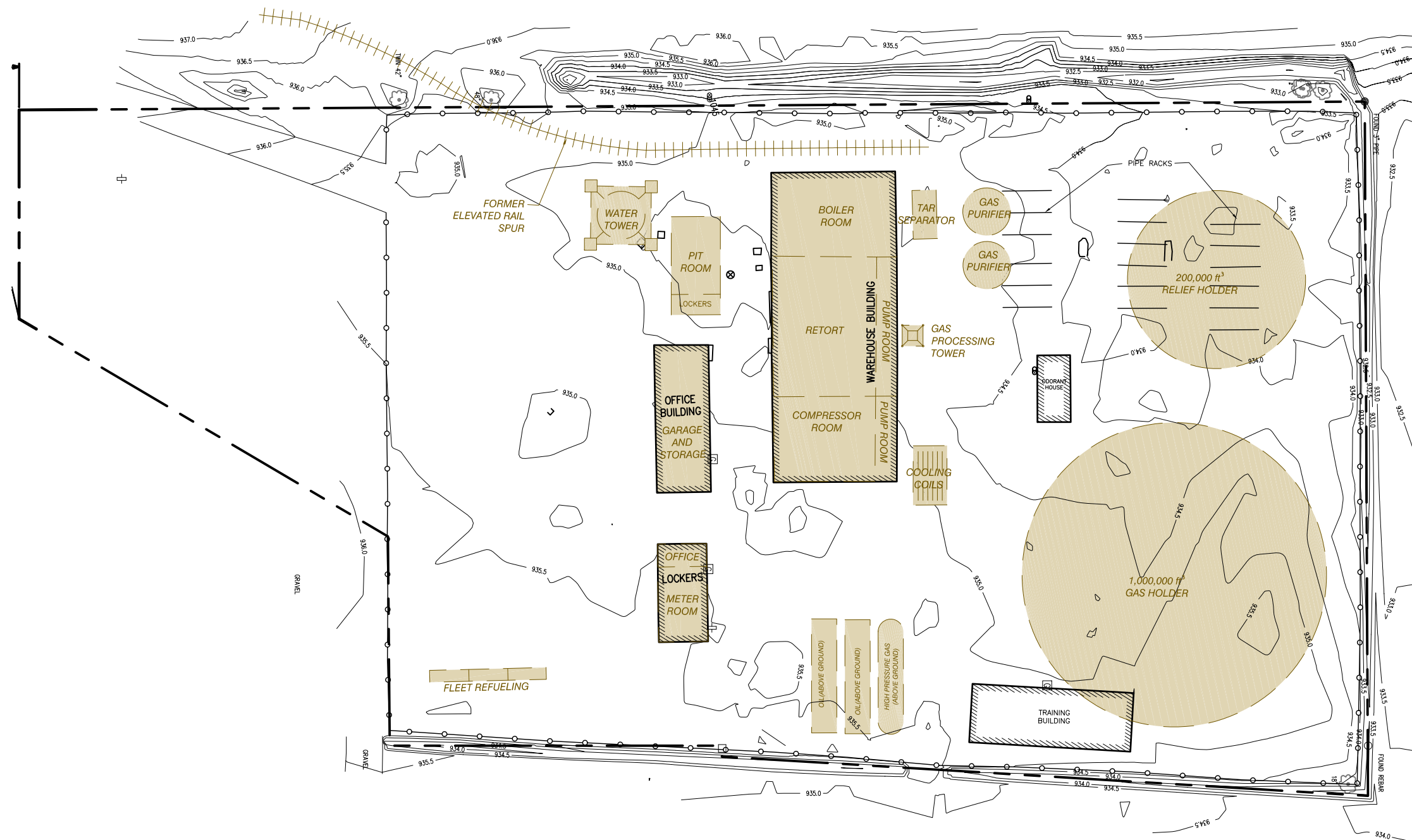
301 PLAINFIELD ROAD * SUITE 350 * SYRACUSE, NY 13212 * 315-451-9560



ROCHESTER & SOUTHERN RAILROAD

LEGEND:

-  HISTORIC FEATURES (SEE NOTE)
-  CURRENT SITE FEATURES
-  PROPERTY BOUNDARY
-  FENCELINE



NOTE:

BASE MAP FROM GEI CONSULTANTS, MARCH 2015. HISTORIC STRUCTURES ADAPTED FROM FIGURE 4, GEI CONSULTANTS, RIWP - JULY 2015.



SCALE: 1"=50'

FIGURE 2

RG&E
PAVILION FORMER MGP
PAVILION, NY

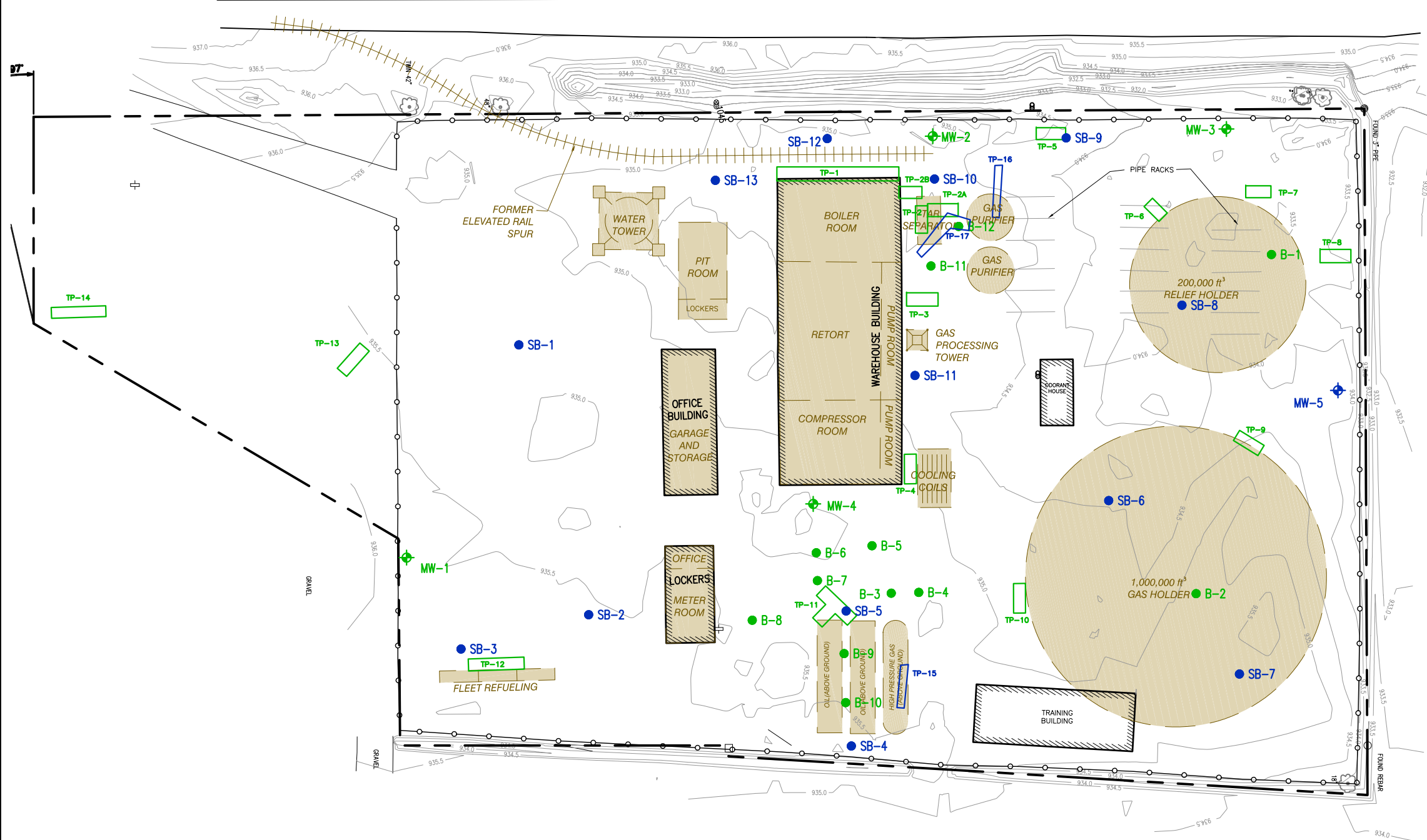
FORMER MGP STRUCTURES

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560



ROCHESTER & SOUTHERN RAILROAD



LEGEND:

HISTORIC MONITORING WELL

HISTORIC SOIL BORING

HISTORIC TEST PIT

MONITORING WELL 2015

SOIL BORING 2015

TEST PIT 2015

HISTORIC FEATURES

CURRENT SITE FEATURES

PROPERTY BOUNDARY

FENCELINE

NOTE:

BASE MAP FROM GEI CONSULTANTS, MARCH 2015. HISTORIC STRUCTURES AND HISTORIC SAMPLE LOCATIONS ADAPTED FROM FIGURE 4, GEI CONSULTANTS, RIWP - JULY 2015.

FIGURE 3

RG&E
PAVILION FORMER MGP
PAVILION, NY

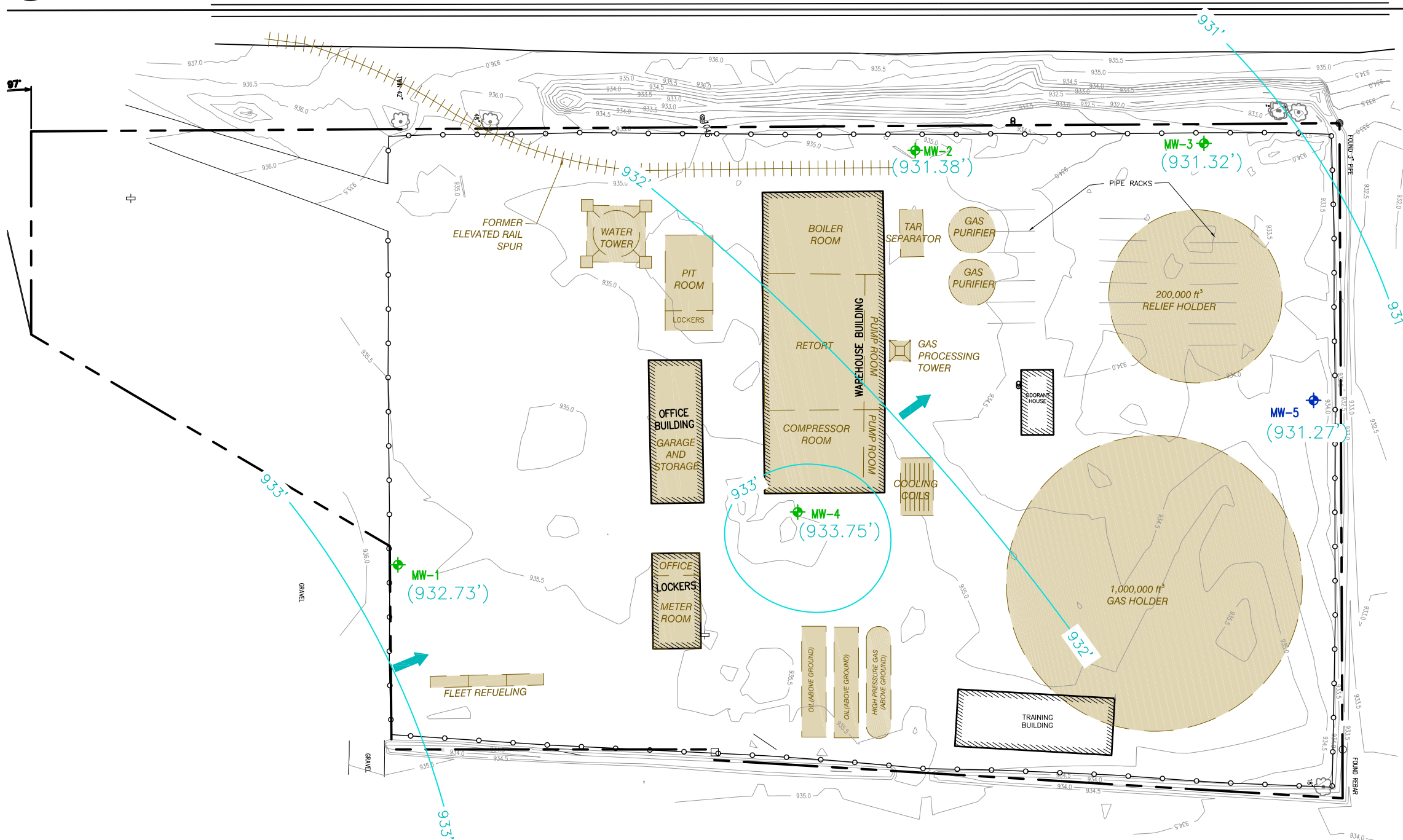
SAMPLE LOCATION MAP

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560



ROCHESTER & SOUTHERN RAILROAD



LEGEND:



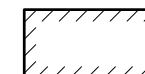
HISTORIC MONITORING WELL



MONITORING WELL 2015



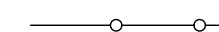
HISTORIC FEATURES



CURRENT SITE FEATURES



PROPERTY BOUNDARY



FENCELINE

(929.2')

JANUARY 2016 GROUNDWATER ELEVATIONS (FT AMSL)



INFERRED GROUNDWATER CONTOUR LINE



INFERRED GROUNDWATER FLOW DIRECTION



SCALE: 1"=50'

NOTE:

BASE MAP FROM GEI CONSULTANTS, MARCH 2015. HISTORIC STRUCTURES AND HISTORIC SAMPLE LOCATIONS ADAPTED FROM FIGURE 4, GEI CONSULTANTS, RIWP - JULY 2015.

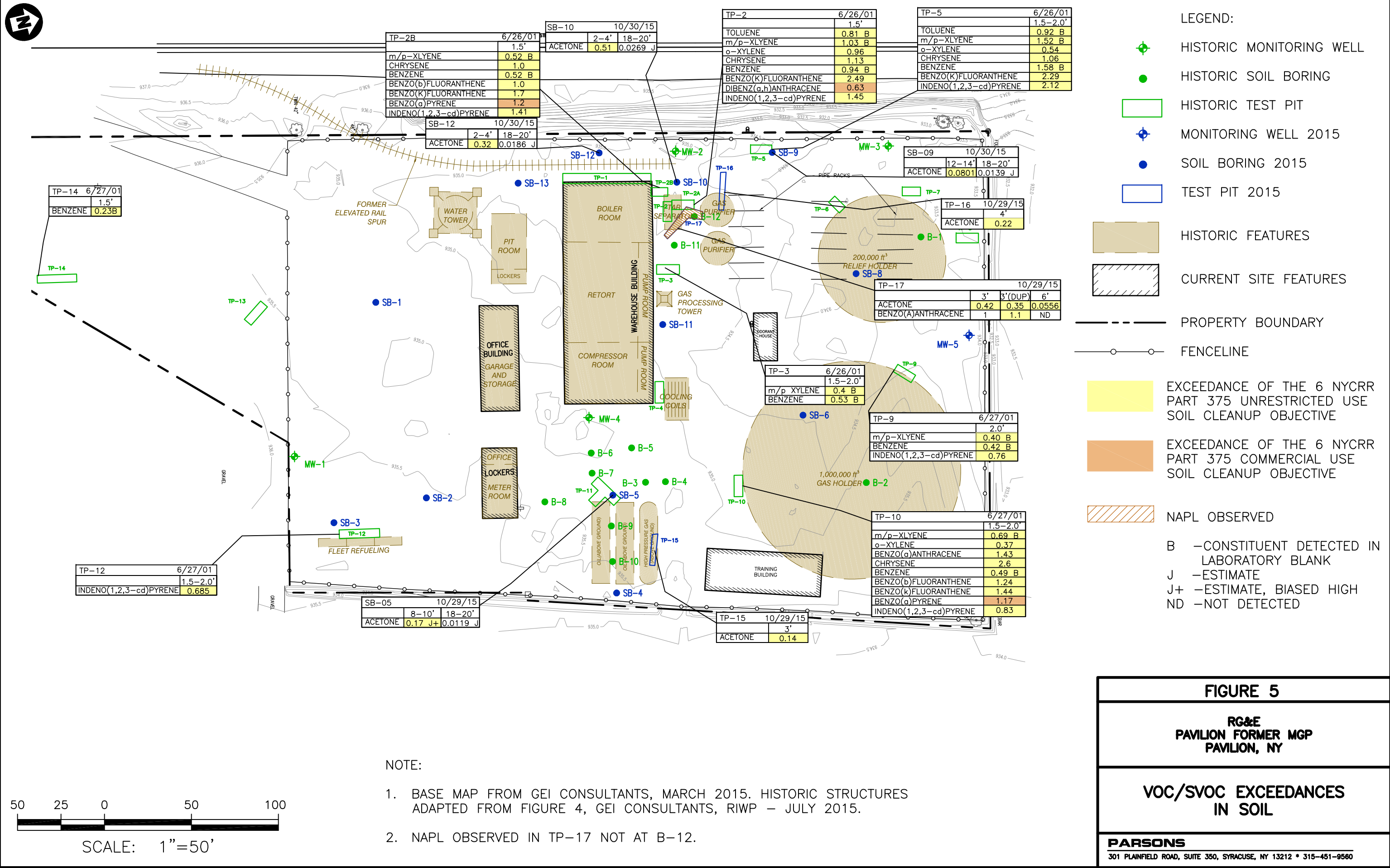
FIGURE 4

RG&E
PAVILION FORMER MGP
PAVILION, NY

GROUNDWATER CONTOUR MAP

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560



APPENDIX A

PSA Report

Preliminary Site Assessment Report

RG&E Property No. 1252

Pavilion, New York

Prepared for:

Rochester Gas and Electric Corporation

89 East Avenue, 4th Floor

Rochester, New York 14649

Prepared by:

Geomatrix Consultants, Inc.

338 Harris Hill Road, Suite 201

Williamsville, New York 14221

(716) 565-0624

May 2002

Project No. 7250

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Table 2	Test Pit Sample Analytical Results
Table 3	Soil Boring Analytical Results
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Table 5	Groundwater Elevations

FIGURES

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Figure 2	Current Site Layout
Figure 3	Historic Site Structures and MGP Layout
Figure 4	Geophysical Survey Results
Figure 5	Test Pit Locations
Figure 6	Monitoring Well/Test Pit/Soil Boring Locations
Figure 7	Direction of Shallow Groundwater Flow

APPENDIXES

Appendix A	Field Logs
Appendix A-1	Test Pit Logs
Appendix A-2	Boring Logs
Appendix A-3	Groundwater Monitoring Well Logs
Appendix B	Laboratory Analytical Data

PRELIMINARY SITE ASSESSMENT REPORT

RG&E property No. 1252

Pavilion, New York

1.0 INTRODUCTION

Geomatrix Consultants, Inc. (Geomatrix) was retained by Rochester Gas and Electric Corporation (RG&E) to conduct a Preliminary Site Assessment (PSA) at RG&E Property No. 1252. The property (herein referred to as the Site) is known as the RG&E Pavilion Operations Center and is located at 6905 Ellicott Street Road in Pavilion, New York.

This report presents the activities and findings of the PSA performed at the Site. Section 2.0 describes the Site setting, summarizes historic Site information, and describes the Phase I Environmental Site Assessment (ESA) conclusions. Section 3.0 presents work performed and investigation methodology. Section 4.0 presents the results of the PSA. Section 5.0 presents conclusions of the PSA.

2.0 SITE LOCATION AND FACILITY DESCRIPTION

The Site is located off of New York State Route 63 in the 100-yr flood plain of north-northeast flowing Oatka Creek, and is legally known as Part of Lot 10, Sections 2 and 3, Craigie Tract, Town of Pavilion (Figure 1). Access to the land-locked Site is through an easement assigned by J.D. Buckley and Son, Inc. (JDB&S, Inc.). The area surrounding the Site includes both commercial and agricultural property developments.

The Site encompasses approximately three acres and currently consists of one large stucco building, three concrete block buildings, and a metal clad building (Figure 2). The remainder of the Site consists of storage yard, parking areas and grassy plots. A chain-link fence surrounds a rectangular-shaped portion of the property, enclosing the parking areas, buildings and storage yard. Farm fields bound the property to the north and east. Railroad tracks border the Site to the west. These tracks have been identified on historic documents as the Buffalo, Rochester and Pittsburgh Railway Company, and the Baltimore and Ohio Railroad. A cement/aggregate distribution facility operated by Hanson North America, Inc. exists west of the railroad tracks. An agricultural products warehouse and distribution center operated by JDB&S, Inc. is located south of the Site.

RG&E currently uses the Pavilion Operations Center for office space, worker training, and vehicular and equipment storage. Prior to RG&E ownership, the Site had been a manufactured gas plant (MGP) operated by the Pavilion Natural Gas company from 1927 - 1937.

2.1 SITE HISTORY

Geomatrix conducted a Phase I Environmental Site Assessment (ESA) in November 2000 at the request of special environmental counsel to RG&E to provide historical and environmental Site information. The Phase I ESA was conducted in general accordance with The American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E 1527-00) and included the following:

- Review of RG&E internal documents and employee discussions;

- Review of historical aerial photographs and Sanborn maps;
- Search of state and federal environmental databases;
- Review of historic newspaper articles and New York area history books;
- Interviews with former employees of the Site; and
- A site reconnaissance.

Based upon the findings of the Phase I ESA, it appears the Site had operated as an MGP and included a single building housing the retorts, a tar separator, two gas purifier tanks, three cooling coils, a 200,000 and a 1,000,000 cubic foot gas holder, a compression tank, two oil above ground storage tanks, four gas producers, an engine room, a meter house, two unlabeled buildings, a rail spur, a coal storage bin, and a water tower (Figure 3). Aside from the buildings and the tar separator, MGP processes were decommissioned and removed from the site. The tar separator is a below ground, concrete (poured concrete construction) structure that remains on the north side of the large building (Figure 3). A surface watercourse traversing the site was also shown on historic drawings.

According to historical accounts, the former MGP operations at the Site used a mixture of coke, oil, and steam to produce gas, which is consistent with a carburetted water gas (CWG) manufacturing process. The source of water to the Site was reportedly surface water pumped from Oatka Creek through a pipeline that paralleled a drainage pipe that discharged surface runoff from the Site to Oatka Creek. Historical accounts also indicate stockpiles of ferrous sulfate saturated wood chips (used for gas purification) had been stored in the northwest corner of the retort building. MGP residual disposal practices for the Site are not documented.

After MGP Site closure in the 1940s, the MGP processes, including aboveground piping and structures for the gasholders, gas purifier tanks, and water tank, were decommissioned and removed from the Site in the 1960s. In the late 1970s to early 1980s, three approximate 500-gallon above ground storage tanks for vehicular fueling were added to the southeast portion of the Site. These tanks are no longer present on the property.

2.2 PHASE I ESA CONCLUSIONS

The Phase I ESA identified areas of potential environmental concern in Site media as a result of the historical activities. Based on the historical information reviewed and site reconnaissance conducted as part of the Phase I ESA, potential areas of environmental concern include:

- Soil and groundwater near former manufactured gas process equipment (i.e., gas holders, gas purification tanks, tar separator tank, oil tanks, and cooling coils);
- Soil and groundwater near buried piping located near and distant from process equipment;
- Soil and groundwater in unknown areas of manufactured gas process residual handling; and
- Soil and groundwater in the vicinity of the former vehicle fuel above ground storage tanks.

3.0 PSA OBJECTIVES AND SCOPE OF WORK

Based upon the Phase I ESA conclusions, the objectives of the PSA were to:

- Assess the potential presence of chemical constituents related to identified historic Site operations in on-site media;
- Assess whether on-site subsurface structures may be acting as potential migration pathways for such chemical constituents in the environmental media; if present, and
- Evaluate whether chemical constituents, if present, may be migrating onto and impacting the Site from adjacent properties (i.e., John Buckley property) and whether any constituents of concern present in on-site soil may be migrating off-site.

The scope of work for the PSA included several investigation phases and consisted of the following activities:

- A geophysical survey using electromagnetic techniques (EM-61) to map the location of buried structures that may act as preferential pathways for chemical constituent migration or could be considered potential source areas;
- A test pit excavation and sampling program to allow for visual and chemical characterization of subsurface soil in the vicinity of former MGP process areas and adjacent to geophysical anomalies suggestive of potential chemical constituent migration pathways or potential source areas of MGP constituents;
- A soil boring/sampling program to characterize the extent of petroleum impacts observed during test pit activities in shallow soil near the former above ground oil storage tank (AST) area and in the vicinity of the tar separator, and to assess soil conditions below the two gas holder pads not investigated during the test pit program; and
- A groundwater monitoring well installation and sampling program to evaluate potential chemical constituent presence in groundwater.

3.1 GEOPHYSICAL SURVEY

A geophysical survey was conducted on May 14 and 15, 2001 to non-invasively map the distribution of buried metal debris and associated piping that may remain on-Site using the Geonics EM61 unit. The EM61 is a high sensitivity, high resolution Time Domain Electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects with an approximate investigation depth of 10 feet. Data were collected along a reference grid spaced 5 feet apart across the Site.

The results of the geophysical survey are shown on Figure 4. Areas suspected to be free of buried metals are shown as color shades of dark blue while light blue through purple illustrate areas likely containing buried metals. Notable anomalies are identified with an alphanumeric designation (A through F). The major geophysical anomalies identified include:

- Anomaly A - Gas holder pad with reinforced concrete
- Anomaly B - Gas holder pad with reinforced concrete
- Anomaly C - Buried metal debris
- Anomaly D - Buried non-metal pipe (linear absence of metallic background)
- Anomaly E - Excavated soil or buried non-metal pipe (linear absence of metallic background)
- Anomaly F - Buried metal debris

Linear anomalies (L1 through L15) are enhanced with a dashed white line on Figure 4. These linear anomalies are suspected to be associated with buried metal pipes.

Confirmation of geophysical anomalies was performed with intrusive investigation methods described in the following sections. The geophysical survey confirmed the location of historic MGP process areas and identified the location of underground piping associated with MGP processes. These areas were considered potential areas of environmental concern and were the focus of subsurface investigation.

3.2 TEST PIT EXCAVATION AND SAMPLE COLLECTION

A subsurface investigation was conducted to investigate geophysical anomalies described above. Test pits were excavated to identify or confirm the major geophysical anomalies and examine subsurface conditions for evidence of shallow soil impact from historic operations (i.e., coal tar-like residuals, petroleum odors, blue or black soil staining, etc.) and collect soil samples for chemical analysis where soil impacts were suspected. Investigation of linear anomalies near the property boundaries was performed since subsurface piping and associated backfill may be off-Site migration pathways for on-Site chemicals.

On June 26 and 27, 2001, 14 test pit locations were excavated by SLC Environmental of Lockport, New York, using a rubber tire backhoe. Test pits were excavated to a maximum

depth of approximately four feet below ground surface, the groundwater table, or to native soil with no evidence of impact, whichever was encountered first. Test pit locations are shown on Figure 5. The figure also includes the geophysical survey results and shows the outline of the historic MGP process areas.

The fill and/or soils at each test pit location were examined by a qualified Geomatrix hydrogeologist. Observations recorded included the dimensions of the excavation, a description of soil type, pipe alignments, zones of groundwater seepage and other features. A photoionization detector (PID) was used to screen the soils for the presence of volatile organic constituents (VOCs). Where metal pipes were encountered below the ground surface and were suspected to represent historic MGP process piping, the pipes were broken and examined for MGP residual solids and/or liquids. Test pit logs are presented in Appendix A-1.

Soil samples were collected from 9 test pit locations (TP-2, TP-2B, TP-3, TP-5, TP-9, TP-10, TP-11, TP-12 and TP-14) where evidence of impact was suspected (visual staining and olfactory evidence of impact, elevated PID readings, suspect fill material) and analyzed for various MGP and/or petroleum related compounds (analytical testing was based on observations and test pit findings). With the exception of TP-11 and TP-12, each of the soil samples were submitted for VOCs and polynuclear aromatic hydrocarbon compounds (PAHs) by Modified EPA Method 8100 at META Environmental, Inc. located in Watertown, Massachusetts. All other sample analyses were conducted by Paradigm Environmental Services, Inc. (Paradigm) in Rochester, New York.

Samples collected from test pits located near former above ground oil/fuel storage areas (TP-11 and TP-12) were analyzed for Spill Technology and Remediation Series (STARS) List VOCs and SVOCs using EPA Methods 8021 and 8270, respectively. Suspected petroleum-impacted soil near the former location of the above ground oil storage tanks (TP-11) was also analyzed for Total Petroleum Hydrocarbons (TPH) by New York State Department of Health Method 301.13-Modified.

Soil samples collected from fill material present at test pit location TP-14 were also analyzed for total cyanide and Target Analyte List (TAL) metals by EPA Methods 6000/7000 series,

while soil samples from TP-3, TP-5, TP-9, TP-10 and TP-11 were additionally analyzed for total cyanide and a list of Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver).

A summary of soil sample selection rationale and analytical methods for samples collected from test pits are presented in Table 1. Soil observations and analytical test results are described in Section 4.0.

3.3 SOIL BORING AND SAMPLE COLLECTION

Following an evaluation of soil sampling data from the test pit activities, soil borings were advanced in areas not previously investigated (below the two gas holder pads) and areas where petroleum impacts were identified in soil (test pit locations TP-2 and TP-11 located near the former tar separator and above ground oil storage tanks, respectively). Twelve soil borings (B-1 to B-12) were advanced to depths ranging from 6 to 8 feet below grade using direct-push methods by Nothnagle Drilling Company (Nothnagle) of Scottsville, New York on December 11, 2001. Soil boring locations are shown on Figure 6.

Soil from each of the boring locations were collected using four-foot long direct-push stainless steel, acetate-lined sampler advanced at four-foot intervals. Each sampler was opened, examined for visual or olfactory evidence of impact, screened with the PID (HnU with a 10.2 eV lamp), and logged. Soil descriptions are presented on borehole logs included in Appendix A-2. Soil samples collected from borings advanced below the gas holder pads (B-1 and B-2) were analyzed for STARS List VOCs and SVOCs by EPA Methods 8021 and 8270, respectively, and total cyanide. Soil samples collected from borings B-4, B-7, B-8 and B-9, advanced in the vicinity of petroleum impacts near the location of the former oil ASTs, were analyzed for TPH by Method 301.13. TPH analytical methods were selected because target compounds analyzed for using STARS List Method 8021 (VOCs) and 8270 (SVOCs) were not previously detected in test pit samples (e.g., TP-11) known to contain petroleum hydrocarbons. Soil samples collected from soil borings B-11 and B-12, located near the tar separator, were field characterized only and not submitted for laboratory analysis.

3.4 GROUNDWATER MONITORING WELL INSTALLATION AND SAMPLE COLLECTION

Groundwater monitoring wells were installed at four locations on-Site (Figure 6) by Nothnagle on December 10 and 11, 2001. Based upon regional groundwater discharge areas (i.e., Oatka Creek), monitoring well MW-1 was installed within the fence-line of the southeastern portion of the Site to serve as an upgradient well. Two downgradient wells (MW-2 and MW-3) were installed near the northwestern fence-line near the tar separator and gasholder pads, respectively. A fourth monitoring well (MW-4) was installed in the area of the former oil ASTs.

Each monitoring well was installed in a borehole advanced using 4-1/4 inch hollow stem augers with continuous split-spoon sampling. Split-spoon soil samples were examined by a qualified Geomatrix hydrogeologist, and described on soil boring logs (including USCS soil classification) presented in Appendix A-3. At each monitoring well location, a two-inch diameter PVC monitoring well was installed. Five-foot well screens were installed from the bottom of the boring for MW-1, MW-2 and MW-3, and a seven-foot well screen was installed from the bottom of the boring for MW-4. The screened interval was set to permit sampling of the unconfined, shallow groundwater table and to intercept any non-aqueous phase liquids which may be present at the overburden/water table interface at the Site. Monitoring wells MW-1 and MW-3 were completed with locking well covers and aboveground, steel outer casings. Monitoring wells MW-2 and MW-4 were finished with locking well covers and flush-mount road boxes to accommodate vehicle traffic. Well completion details are provided in Appendix A-3.

Each of the four monitoring wells was developed to remove fines from the sand pack by surging/purging with a dedicated bailer on December 27, 2001. No sheens or odors were noted during purging. Purge water was discharged to the ground surface. Turbidity, specific conductance, pH, dissolved oxygen and temperature were measured during development. Well development was considered complete after 10 to 15 well volumes were removed from the well and turbidity had stabilized to levels that would produce samples with relatively little suspended solids.

Final field measured turbidity values were:

- MW-1 - 36 Nephelometric Turbidity Unit (NTU)
- MW-2 - 93 NTU
- MW-3 - 120 NTU
- MW-4 - 80 NTU

Groundwater samples were collected from each monitoring well on January 10, 2002. Samples were collected using dedicated, disposable bailers after adequate purging (minimum of 3 well volumes and stabilization of field measured parameters). Groundwater samples were submitted to Paradigm for laboratory analyses of STARS List VOCs and SVOCs by EPA Methods 8021 and 8270, respectively, and total cyanide. The groundwater sample from upgradient monitoring well MW-1, located near the property boundary with the agricultural products warehouse and distribution center operated by JDB&S, Inc., was also analyzed for pesticides and herbicides by Methods EPA 608 and SM 18 6640B, respectively, and nitrate by Method EPA 353.1. These additional parameters were used to evaluate potential on-Site impact from JDB&S and was based upon suspect white-colored precipitate observed during the Phase I ESA in the drainage swale southwest of the RG&E fence line.

4.0 INVESTIGATION RESULTS

Intrusive investigation results for RG&E Property No. 1252 are discussed below for both soil and groundwater. Test pit and soil boring sample analytical results are compared to the NYSDEC Technical and Administrative Guidance Memorandum #4046 (TAGM #4046) guidance values (referred to as soil criteria). On January 11, 2001 the NYSDEC issued a directive requiring the TAGM #4046 values be used to evaluate petroleum compound presence in soil at all sites under the Division of Environmental Remediation (DER) purview, in lieu of previously established STARS soil criteria. Groundwater analytical results are compared to New York State Class GA Groundwater Quality Standards (referred to as groundwater criteria). Laboratory analytical data packages are presented in Appendix B.

4.1 TEST PIT EXCAVATION RESULTS

Rationale for test pit location selection, test pit depths, material encountered, PID readings, soil sample collection depths, and requested chemical analysis are summarized in Table 1. Details are included in test pit excavation logs presented in Appendix A-1.

Fill (i.e., excavated material) was encountered in test pits excavated across the Site. The fill material generally consists of gravel, sand, coal fragments, wood, ash, and brick fragments. Native soils were generally encountered at depths of 2 to 3 feet below ground surface (fbgs), except at the western portion of the Site where they were generally encountered at greater than 3.5 fbgs. Native soils consist of poorly graded sand and silt with trace amounts of clay. Groundwater was encountered in the tar separator excavations only, at approximately 3 fbgs.

Fill/soil staining, elevated PID readings and/or petroleum odors were observed in test pits TP-1, TP-2, TP-5, TP-11 and TP-14. Staining was present in localized areas in TP-1. Samples were not collected from the test pit since the soil impacts were most likely associated with buried creosote-coated railroad timbers found adjacent to the large building and therefore highly localized and non-MGP-related. Suspect fill material consisting of iron-oxide stained fine gravel in TP-14 was sampled and analyzed for an expanded list of metals (TAL metals). Iron-oxide coated wood chips, likely used as gas purifier media, were observed in several test pits excavated in the northwestern portion of the Site. A sample of the wood chips was submitted for chemical analysis from test pit TP-5. Petroleum odors were detected at test pit location TP-

2 near the tar separator. Two ancillary test pits, TP-2A and TP-2B, were excavated in this area to further assess soil impacts. These test pits exposed the below ground concrete-constructed tar separator, associated piping and fill material surrounding the tank. A small quantity of liquid petroleum residue was observed on water within the former tar separator. Petroleum impacts were also present in the vicinity of shallow subsurface piping identified in test pit TP-11 near the former location of the oil ASTs.

A summary of the analytical results for submitted soil samples from the test pit excavations is provided in Table 2. Samples analyzed for volatile organic compounds were found to contain compound concentrations that were either below soil criteria or detected in the laboratory blank. PAH analysis of samples from test pits TP-2, TP-2B, TP-5 and TP-10 detected up to six different PAHs at concentrations slightly exceeding soil criteria. Coal fragments, observed in many of the samples of the fill material, naturally contain PAHs and likely affected the detection of these compounds. However, concentrations were within the range typically encountered in industrial or urban environments with vehicular traffic and/or use of asphaltic materials for paving or fill. Interference with long-carbon chain petroleum hydrocarbon compounds caused elevated detection limits in samples analyzed for STARS VOCs and SVOCs from test pit TP-11. Although only trace concentrations of two VOCs (1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene) were detected, TPH analysis of the TP-11 soil sample identified total petroleum compound concentrations of 21,200 milligrams per kilogram (mg/kg). The lack of STARS VOC and SVOC detections suggest that substantial weathering of petroleum hydrocarbons has likely occurred and is responsible for the elevated TPH.

Inorganic compounds were generally at or below background concentrations (as identified in TAGM #4046) for those samples analyzed for the RCRA metals and total cyanide. Cadmium was detected at concentrations ranging from 1.02 – 10.8 mg/kg which, although somewhat higher than typical background levels (0.1 – 1 mg/kg), is most likely representative of Site background. A number of RCRA metals were found to slightly exceed background levels in the sample from TP-9 and lead was detected at an elevated concentration of 1,275 mg/kg. TAL metal analysis of the soil sample from TP-14 indicated six inorganic compounds at concentrations above typical background range. Iron oxidation was observed on fill in the TP-14 excavation.

4.2 SOIL BORING RESULTS

Soil borings were advanced below the two gas holder pads (B-1 and B-2), in the area of the former oil ASTs (B-3 through B-10), and in the vicinity of the tar separator (B-11 and B-12) to supplement test pit findings. Soil boring locations are shown on Figure 6 and soil descriptions presented on the soil boring logs in Appendix A-2. Analytical results are summarized in Table 3.

Samples collected from the B-1 and B-2 gas holder borings indicated the presence of fill materials above the concrete gas holder pads. Soil samples were collected from the soils beneath the pads. Analysis of the soil samples did not detect STARS VOCs or SVOCs in either sample. Total cyanide was detected in the sample collected from B-1 at a concentration of 2.1 mg/kg; substantially below soil criteria (21 mg/kg or site background).

Petroleum impacts identified during test pit excavations in the former oil AST area were investigated to characterize the extent of impact in the area. Visual, odor, and PID soil screening evidence were used to evaluate petroleum presence in the field. Field observations are identified on the field boring logs presented in Appendix A-2. The borings with the highest degree of visual evidence of impact were located closest to test pit TP-11. These borings included B-3, B-7, and B-9. Petroleum impacts were generally observed from below the asphalt pavement to approximately 4 to 5 feet below grade (primarily in the unsaturated zone). TPH concentrations were not elevated (i.e., were below 500 mg/kg) in samples collected and analyzed from borings B-7 and B-8, located respectively west and south of the area of observed impact. No visual staining and only slight petroleum odors were noted in samples collected from borings B-4 and B-10, located respectively north and east of the area of observed impact. However, TPH levels are somewhat elevated (above 500 mg/kg) in samples analyzed from these borings and are most likely the result of weathered petroleum products. To verify the absence of STARS SVOCs in petroleum impacted soil collected from test pit TP-11, the B-10 soil sample was additionally analyzed for STARS SVOCs. STARS SVOCs were not detected in the B-10 soil sample.

An additional assessment (in addition to the test pits) of the tar separator was conducted by advancing borings B-11 and B-12 respectively east and north of the separator location. Strong petroleum odors and elevated PID readings were noted in soil samples examined from these borings. Approximately 4.5 feet of fill overlies native soil in this area and the extent of petroleum impact was observed in the upper native soil below the fill as well. No samples were collected and submitted for laboratory chemical analysis.

4.3 GROUNDWATER RESULTS

To evaluate potential groundwater impacts at the Site, groundwater samples were collected from the four on-Site monitoring wells and submitted for laboratory analysis. Groundwater analytical results are summarized on Table 4. No STARS VOCs or SVOCs were detected in the groundwater samples analyzed from the Site. Barium was the only metal detected in the groundwater samples at concentrations ranging from 0.076 – 0.394 milligrams per liter (mg/L), well below the groundwater criterion of 1 mg/L, and within typical background levels. Total cyanide was detected in samples collected from monitoring well MW-3 (0.11 mg/l). This concentration is below the total cyanide groundwater criteria of 0.2 mg/l. Neither chlorinated pesticides, herbicides, nor nitrate were detected in samples collected from monitoring well MW-1, suggesting a low potential for groundwater impact from the agricultural chemicals that may be stored or handled at the JDB&S, Inc. property.

A RG&E survey crew established reference elevations at each monitoring well location in January 2002 to permit determination of groundwater flow direction at the Site. Depth to groundwater measurements obtained on December 27, 2001 prior to well development and on January 10, 2002 prior to sampling. Groundwater measurement data are summarized on Table 5. These measurements were used to approximate the general flow direction of shallow groundwater at the Site. Groundwater elevations in the monitoring wells on January 10, 2002 are plotted on Figure 7. The elevation data were contoured and indicate a north-northwest groundwater flow direction at the Site for that sampling event. A localized hydraulic high appears to be present near the large building at MW-4. The hydraulic high occurred during both rounds of groundwater elevation measurements. Roof drains from the building tie in to a down spout that discharges to the gravel ground surface in this area. Infiltrating surface water

in the vicinity of the roof drain down spout is believed to cause the elevated hydraulic head observed in this area.

5.0 CONCLUSION

The results of the PSA indicate limited on-Site impacts associated with the historic MGP-related operations. In general, fill materials consisting of gravel, sand, coal fragments, wood, ash, and brick fragments were found across the Site to depths of 4.5 fbs. PAHs and inorganic compounds typical of such fill were detected in soil samples collected from various investigation locations across the Site and were generally near or below NYSDEC TAGM #4046 guidance values. Field and laboratory analytical findings did indicate localized impacts in two areas:

- The location of the former above ground oil storage tanks; and
- The location of the tar separator.

Petroleum-impacted soil (based on visual and olefactory evidence and/or TPH concentrations) is present in these two areas. Chemical constituent concentrations were not determined for soil in the vicinity of the tar separator. The concentration of petroleum hydrocarbons measured in the remainder of the Site soils do not pose a significant environmental or human health risk under industrial or commercial land uses since the concentrations are relatively low and the soil is covered with crushed stone. Significant vertical migration of organic compounds has not occurred since petroleum hydrocarbons were not detected in groundwater samples collected.

Geomatrix provides two approaches to address the two areas of impact. The first approach is the development of a performance-based Soils Management Plan (SMP) for the Site. The SMP would provide general guidelines for actions to implement during intrusive activities associated with Site operations or future development. The second approach is the implementation of a cost-effective remedial action involving excavation and off-site disposal of impacted soil. The excavation activities would extend vertically and laterally until there is no evidence of impact (olfactory evidence, visual staining, or PID measurements) or until groundwater is encountered. Additional characterization of soil in the vicinity of the tar separator is recommended to evaluate soil disposal options.

TABLE 1

TEST PIT SUMMARY
RG&E Property No. 1252
Pavilion, New York

Test Pit ID ¹	Depth of of Fill (ft bgs)	Total Depth (ft bgs)	PID (ppm)	Description of Fill Material	Presence of Organic/ Other Staining	Groundwater Encountered	Rationale for Test Pit Location	Test Pit Findings	Sample Depth (ft bgs)	Sample Description	Requested Analysis						
											BTEX	PAHs	Total Cyanide	RCRA Metals	STARS VOCs	STARS SVOCs	TPH
TP-1	3.5	3.5	0	gravel, coal, railroad ties, clinker	yes	no	linear geophysical anomaly	iron pipes, timbers, reinforced concrete	NS	--							
TP-2	3	3	3	brick-lined tar separator tank	yes	yes	former tar tank area	Localized presence of petroleum residual	1.5	dry fill	X	X					
TP-2A	3	3	3	gravel, coal, clinker, brick, wood	no	yes	former tar tank area	concrete pad	NS	--							
TP-2B	3	3	3	gravel, coal, clinker, brick, wood	yes	no	former tar tank area	Localized presence of petroleum residual	1.5	dry fill	X	X					
TP-3	4	4	0	gravel, brick	no	no	investigate back of bldg	3 iron pipes	1.5-2.0	dry to moist fill	X	X	X	X			
TP-4	4	4	0	asphalt cold-patch, clay, gravel	no	no	former cooling coils	1 iron pipe	NS	--							
TP-5	3	3	1-2	gravel, sand, brick, black/red-orange wood chips	no	no	linear geophysical anomaly	iron pipe with water (no sheen), wood chips	1.5-2.0	wood chips	X	X	X	X			
TP-6	4	4	0	gravel, clinker, brick	no	no	linear geophysical anomaly	gas holder concrete pad and iron pipe	NS	--							
TP-7	3	4	0	gravel, brick, concrete over wood chips	no	no	linear geophysical anomaly	scrap metals	NS	--							
TP-8	4	4	0	gravel, brick, concrete	no	no	buried metal geophys. anomaly	apparent sheet metal from gas holders	NS	--							
TP-9	2	3	0	gravel, brick, large cobbles	no	no	linear geophysical anomaly	1 iron pipe	2	native soil	X	X	X	X			
TP-10	2.5	3	0	gravel, brick, glass, black cindery ash	no	no	linear geophysical anomaly	iron pipe and edge of gas holder concrete pad	1.5-2.0	black ash	X	X	X	X			
TP-11	2	2	16	gravel, black cindery ash, brick	yes	no	former oil storage/linear anomaly	Several iron pipes and petroleum residual	1.5-2.0	native soil			X	X	X	X	X
TP-12	2	4	0	asphalt cold-patch, gravel, brick, sand	yes	no	former AST for vehicle fuel	miscellaneous fill	1.5-2.0	native soil					X	X	
TP-13	2.5	4	0	gravel, scrap metal, coal, clinker, paper	no	no	buried metal geophys. anomaly	misc. fill scrap metal, hydraulic hoses	NS	--							
TP-14	1.5	3	0	gravel with iron oxide staining, discolorization, metal	no	no	buried metal geophys. anomaly	miscellaneous fill	1.5	dry fill	X	X	X	X(2)			

- Notes:
- Maximum reading measured by photionization detector.
 - Metals analysis for Target Analyte List (TAL)

ft bgs = feet below ground surface
PID = Photoionization Detector
BTEX = Benzene, Toulene, Ethylbenzene and Xylenes (total)
PAHs = Polynuclear Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds
TPH = Total Petroleum Hydrocarbons

RCRA = Resource Conservation and Recovery Act
STARS = Spill Technology and Remediation Series
NS = indicates sample not collected.
AST = Aboveground Storage Tank
-- = not applicable

TABLE 2

TEST PIT SAMPLE ANALYTICAL RESULTS

RG&E Property No. 1252
Pavilion, New York

CONSTITUENT	TAGM #4046 Soil Criteria ⁽¹⁾	Sample Location and Collection Date								
		TP-2	TP-2B	TP-3	TP-5	TP-9	TP-10	TP-11	TP-12	TP-14
		6/26/01	6/26/01	6/26/01	6/26/01	6/27/01	6/27/01	6/27/01	6/27/01	6/27/01
VOCs Method 8021 STARS (mg/kg)										
1,3,5-Trimethylbenzene	3.3	NA	NA	NA	NA	NA	NA	0.277	U	NA
1,2,4-Trimethylbenzene	13	NA	NA	NA	NA	NA	NA	0.506	U	NA
SVOCs Method 8270 STARS (mg/kg)										
Ideno (1,2,3-cd) pyrene	3.2	NA	NA	NA	NA	NA	NA	U	U	NA
VOCs and SVOCs by Modified EPA Method 8100 (mg/kg)										
Benzene	0.06	0.94 B	0.52 B	0.53 B	1.58 B	0.42 B	0.49 B	NA	NA	0.23 B
Toluene	1.50	0.81 B	0.29 B	0.22 B	0.92 B	0.22 B	0.25 B	NA	NA	0.12 B
Ethylbenzene	5.50	0.76 B	0.17 B	0.12 JB	0.62 B	0.15 B	0.25 B	NA	NA	0.09 JB
m/p-Xylene	1.20	1.03 B	0.52 B	0.4 B	1.52 B	0.40 B	0.69 B	NA	NA	0.25 B
Styrene	--	0.65	0.13 J	U	U	U	0.11 J	NA	NA	U
o-Xylene	1.20	0.96	0.21	0.13 J	0.54	0.09 J	0.37	NA	NA	0.07 J
Isopropyltoluene	--	0.70	0.09 J	U	0.15 J	0.07 J	0.14	NA	NA	U
Propylbenzene	--	0.72	0.07 J	U	0.16 J	0.08 J	0.09 J	NA	NA	U
1,3,5-Trimethylbenzene	3.30	0.68	0.10 J	0.07 J	0.22 J	0.08 J	0.21	NA	NA	U
1,2,4-Trimethylbenzene	13.00	1.47	0.36	0.22	0.51	0.31	0.85	NA	NA	0.1
sec-Butylbenzene	--	0.66	U	U	U	U	0.11 J	NA	NA	U
p-Isopropyltoluene	--	0.74	0.14	U	0.17 J	0.08 J	0.31	NA	NA	U
n-Butylbenzene	--	0.74	0.14	U	0.18 J	0.14	0.45	NA	NA	U
Naphthalene	13.00	0.94	0.69	0.55	0.6	0.87	1.59	NA	NA	0.12
2-Methylnaphthalene	36.40	1.08	0.44	0.49	0.21 J	0.53	1.09	NA	NA	U
1-Methylnaphthalene	--	1.13	0.44	0.35	0.23 J	0.27	1.13	NA	NA	U
Acenaphthylene	41.00	1.11	1.12	0.39	I	0.43	I	NA	NA	0.1 J
Acenaphthene	50.00	1.04	0.57	0.16	I	I	I	NA	NA	U
Dibenzofuran	6.20	1.02	0.29	I	0.38	I	I	NA	NA	I
Fluorene	50.00	0.79	0.21	0.24	0.44	I	0.52	NA	NA	0.11
Phenanthrene	50.00	1.05 B	0.71 B	0.4 B	0.68 B	0.67B	1.68 B	NA	NA	B,I
Anthracene	50.00	0.95	0.35	0.27	0.25 J	0.22	0.35	NA	NA	I
Fluoranthene	50.00	0.76	1.31	I	1.09	I	2.32	NA	NA	0.41
Pyrene	50.00	0.82	1.53	0.33	1.13	I	2.47	NA	NA	I
Benzo(a)anthracene	0.224 or MDL	0.85	0.84	I	0.85	U	1.43	NA	NA	I
Chrysene	0.40	1.13	1.0	I	1.06	U	2.6	NA	NA	I
Benzo(b)fluoranthene	1.10	0.91	1.0	0.53	0.84	U	1.24	NA	NA	0.25
Benzo(k)fluoranthene	1.10	2.49	1.7	0.4	2.29	U	1.44	NA	NA	0.44
Benzo(a)pyrene	0.061 or MDL	0.93	1.2	0.7	0.91	U	1.17	NA	NA	0.32
Indeno(1,2,3-cd)pyrene	3.20	1.45	1.41	0.39	2.12	0.76	0.83	NA	NA	0.32
Dibenzo(a,h)anthracene	0.014 or MDL	0.63	0.18	0.09 J	0.3 J	U	0.24	NA	NA	U
Benzo(g,h,i)perylene	50.00	1.11	1.98	1.17	2.85	0.19	1.12	NA	NA	0.46
Total Petroleum Hydrocarbons, mg/kg										
	--	NA	NA	NA	NA	NA	NA	21,200	NA	NA

TABLE 2

TEST PIT SAMPLE ANALYTICAL RESULTS

CONSTITUENT	TAGM #4046 Soil Criteria ⁽¹⁾		Sample Location and Collection Date								
			TP-2	TP-2B	TP-3	TP-5	TP-9	TP-10	TP-11	TP-12	TP-14
			6/26/01	6/26/01	6/26/01	6/26/01	6/27/01	6/27/01	6/27/01	6/27/01	6/27/01
	Eastern USA Background	TAGM #4046 Value									
<i>Total Metals by SW-846 Method 6010/7471 (mg/kg)</i>											
Aluminum	33,000	SB	NA	NA	NA	NA	NA	NA	NA	NA	5509
Arsenic	3-12 ⁽²⁾	7.5 or SB	NA	NA	2.28	5.1	18.8	19	8.31	NA	U
Barium	15 - 600	300 or SB	NA	NA	61.1	38.5	147	82.1	48.5	NA	40.3
Beryllium	0 - 1.75	0.16 (HEAST) - SB	NA	NA	NA	NA	NA	NA	NA	NA	U
Cadmium	0.1-1	1 or SB	NA	NA	3.08	1.02	10.8	1.83	2.73	NA	2.94
Calcium	130 - 35,000 ⁽²⁾	SB	NA	NA	NA	NA	NA	NA	NA	NA	84,268
Chromium	1.5 - 40 ⁽²⁾	10 or SB	NA	NA	8.65	14.2	54.5	8.97	9.19	NA	14
Cobalt	2.5 - 60 ⁽²⁾	30 or SB	NA	NA	NA	NA	NA	NA	NA	NA	6.96
Copper	1 - 50	25 or SB	NA	NA	NA	NA	NA	NA	NA	NA	130
Iron	2,000 - 550,000	2,000 or SB	NA	NA	NA	NA	NA	NA	NA	NA	45,836
Lead	4 - 61, 200-500 ⁽²⁾	SB	NA	NA	46.6	17.8	127.5	201	75.5	NA	79
Magnesium	100 - 5,000	SB	NA	NA	NA	NA	NA	NA	NA	NA	23,408
Manganese	50 - 5,000	SB	NA	NA	NA	NA	NA	NA	NA	NA	626
Mercury	0.001 - 0.2	0.1	NA	NA	U	U	0.248	U	U	NA	U
Nickel	0.5 - 25	13 or SB	NA	NA	NA	NA	NA	NA	NA	NA	33.3
Potassium	8,500 - 43,000 ⁽²⁾	SB	NA	NA	NA	NA	NA	NA	NA	NA	1089
Selenium	0.1 - 3.9	2 or SB	NA	NA	2.9	1.33	1.82	1.72	3	NA	1.19
Silver	--	SB	NA	NA	1.21	U	1.14	U	U	NA	1.44
Sodium	6,000-8,000	SB	NA	NA	NA	NA	NA	NA	NA	NA	168
Thallium	--	SB	NA	NA	NA	NA	NA	NA	NA	NA	U
Vanadium	1 - 300	150 or SB	NA	NA	NA	NA	NA	NA	NA	NA	20.69
Zinc	9 - 50	20 or SB	NA	NA	NA	NA	NA	NA	NA	NA	229
<i>Total Cyanide by EPA Method 504.1 (mg/kg)</i>	10 - 50	21 or SB	NA	NA	2	2.2	7.2	2.3	U	NA	1.7

(1) Soil Criteria from NYSDEC TAGM #4046

(2) New York State background concentration

(3) Eastern USA Background Levels vary widely. Average concentrations in undeveloped rural areas may range from 4 -61 ppm, average concentrations in Metropolitan or Urban areas are much higher and typically range from 200 - 500 ppm.

NA = Not Analyzed

ND = Not Detected

SB = Site Background

-- = No value exists

J = estimated value

B = constituent detected in laboratory blank

I = Concentration/peak is uncertain due to potential interference.

TCL = Target Compound List

VOCs = Volatile Organic Compounds

SVOCs = Semi-Volatile Organic Compounds

STARS = Spill Technology and Remediation Series

TAL = Target Analyte List

U= Undetected

shading indicates exceedence of TAGM #4046 cleanup objective

TABLE 3

SOIL BORING ANALYTICAL RESULTS

RG&E Property No. 1252
Pavilion, New York

CONSTITUENT	TAGM #4046 Soil Criteria ⁽¹⁾	Sample Location and Collection Date					
		B-1 12/11/01	B-2 12/11/01	B-4 12/11/01	B-7 12/11/01	B-8 12/11/01	B-10 12/11/01
VOCs Method 8021 STARS (mg/kg)		ND	ND	NA	NA	NA	NA
SVOCs Method 8270 STARS (mg/kg)		ND	ND	NA	NA	NA	ND
Total Petroleum Hydrocarbons (mg/kg)	--	NA	NA	1,010	17.5	U	2,190
Total Cyanide by EPA Method 504.1 (mg/kg)	Eastern USA Background	TAGM #4046 Value					
	10 - 50	2.1	U	NA	NA	NA	NA

(1) Soil Criteria from NYSDEC TAGM #4046

(2) New York State background concentration

NA = Not Analyzed

ND = Not Detected

SB = Site Background

-- = No value exists

VOCs = Volatile Organic Compounds

SVOCs = Semi-Volatile Organic Compounds

STARS = Spill Technology and Remediation Series

TABLE 4

GROUNDWATER ANALYTICAL SUMMARY

RG&E Property No. 1252
Pavilion, New York

CONSTITUENT	Groundwater Criteria ⁽¹⁾	Sample Location and Collection Date			
		MW-1 1/10/02	MW-2 1/10/02	MW-3 1/10/02	MW-4 1/10/02
<i>STARS VOCs by EPA Method 8021 (ug/l)</i>		ND	ND	ND	ND
<i>STARS SVOCs by EPA Method 8270 (ug/l)</i>		ND	ND	ND	ND
<i>RCRA Metals by EPA Method 6000/7000 (mg/l)</i>					
Arsenic	0.025	ND	ND	ND	ND
Barium	1	0.076	0.103	0.081	0.394
Cadmium	0.005	ND	ND	ND	ND
Chromium	0.05	ND	ND	ND	ND
Lead	0.025	ND	ND	ND	ND
Mercury	0.0007	ND	ND	ND	ND
Selenium	0.010	ND	ND	ND	ND
Silver	0.05	ND	ND	ND	ND
<i>Total Cyanide by EPA Method 335.3 (mg/l)</i>					
Cyanide	0.2	ND	ND	0.11	ND
<i>Nitrate by EPA Method 353.1 (mg/l)</i>	10	ND	NA	NA	NA
<i>Chlorinated Pesticides by EPA Method 608</i>		ND	NA	NA	NA
<i>Chlorinated Herbicides by Method SM 18 6640B</i>		ND	NA	NA	NA

(1) NYS Class GA Ambient Water Quality Standard

ND = Not Detected

NA = Not Analyzed

RCRA = Resource Conservation and Recovery Act

STARS = Spills Technology and Remediation Series

SVOCs = Semi-Volatile Organic Compounds

VOCs = Volatile Organic Compounds

TABLE 5
GROUNDWATER ELEVATIONS

RG&E Property No. 1252
Pavilion, New York

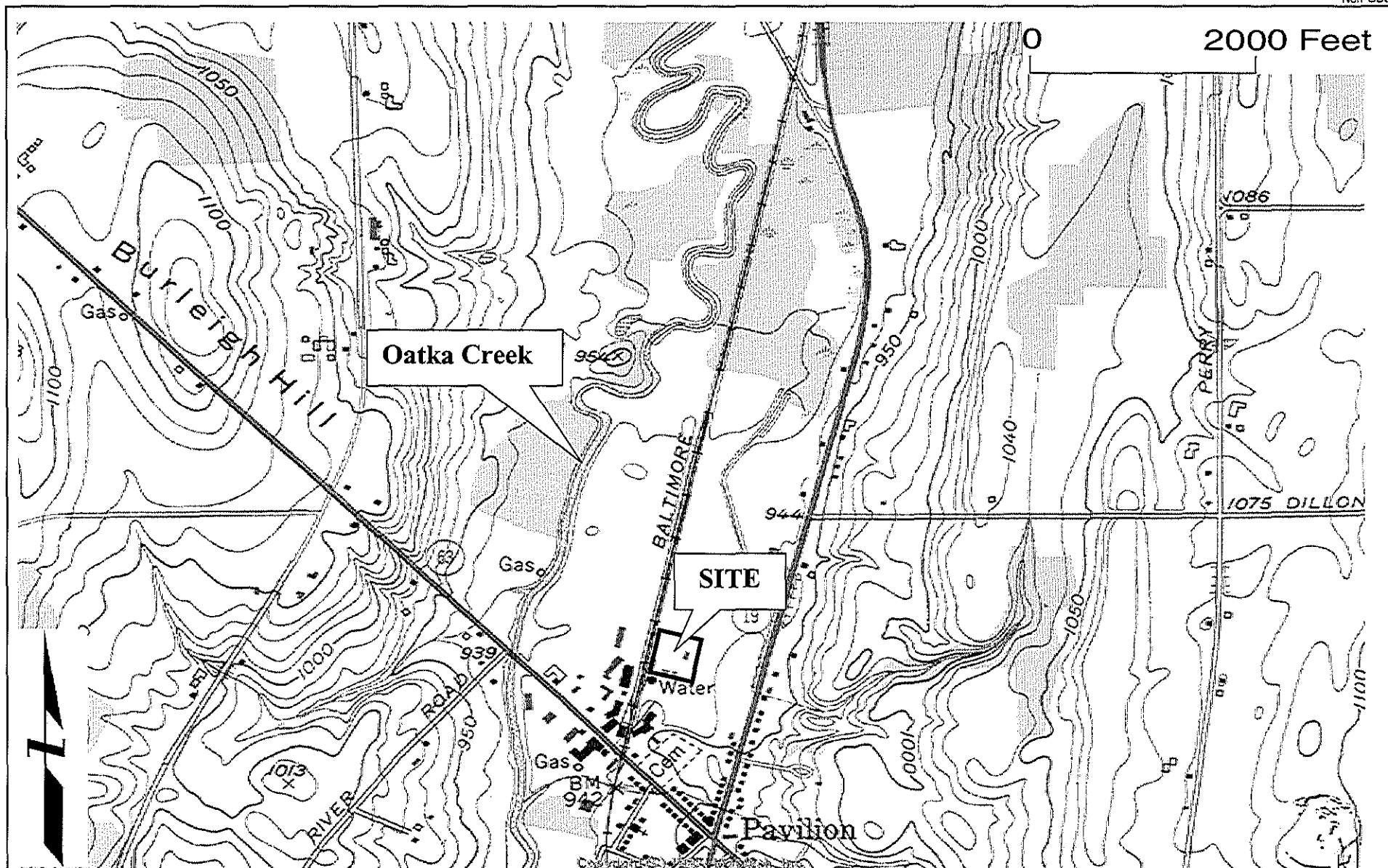
Monitoring Well	Top of Riser Elevation ⁽¹⁾ (famsl)	DTW on 12/27/01	Groundwater Elevation	DTW on 1/10/02	Groundwater Elevation
MW-1	939.19	6.65	932.54	6.82	932.37
MW-2	935.60	4.30	931.3	4.37	931.23
MW-3	936.95	5.77	931.18	6.03	930.92
MW-4	935.55	1.3	934.25	1.65	933.9

NOTES:

(1) Elevation as measured by RG&E Survey Crew.

famsl=feet above mean sea level

DTW=Depth To Water



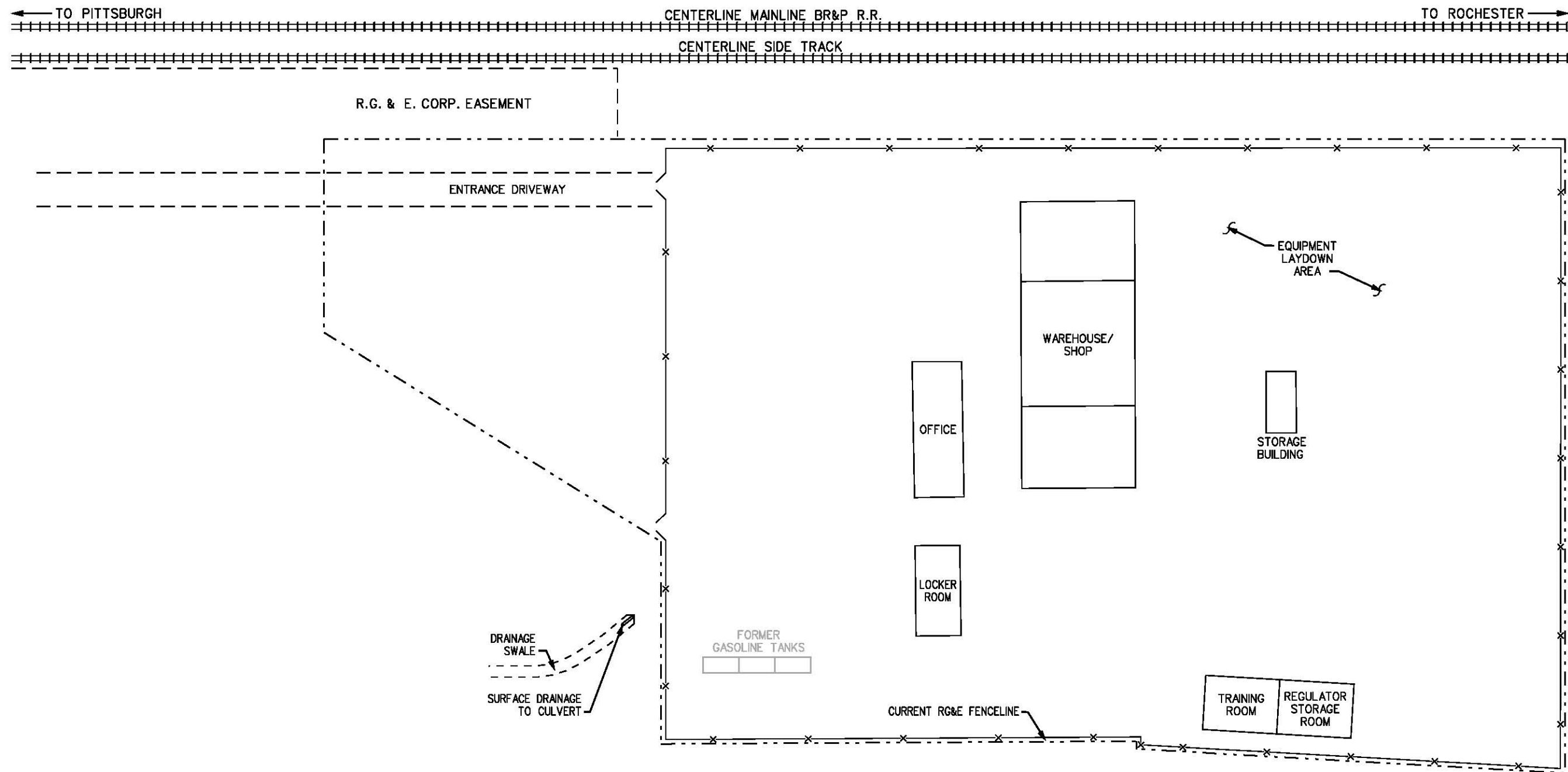
SITE LOCATION MAP
RG&E Property No. 1252
Pavilion, New York

USGS Topographic Map
Strafford Quadrangle

Project No.
7250

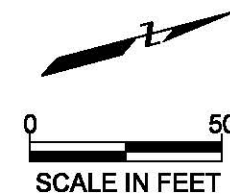
Figure
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EXPLANATION

----- Current Property Boundary Limit



CURRENT SITE LAYOUT
RG&E Property No. 1252
Pavilion, New York

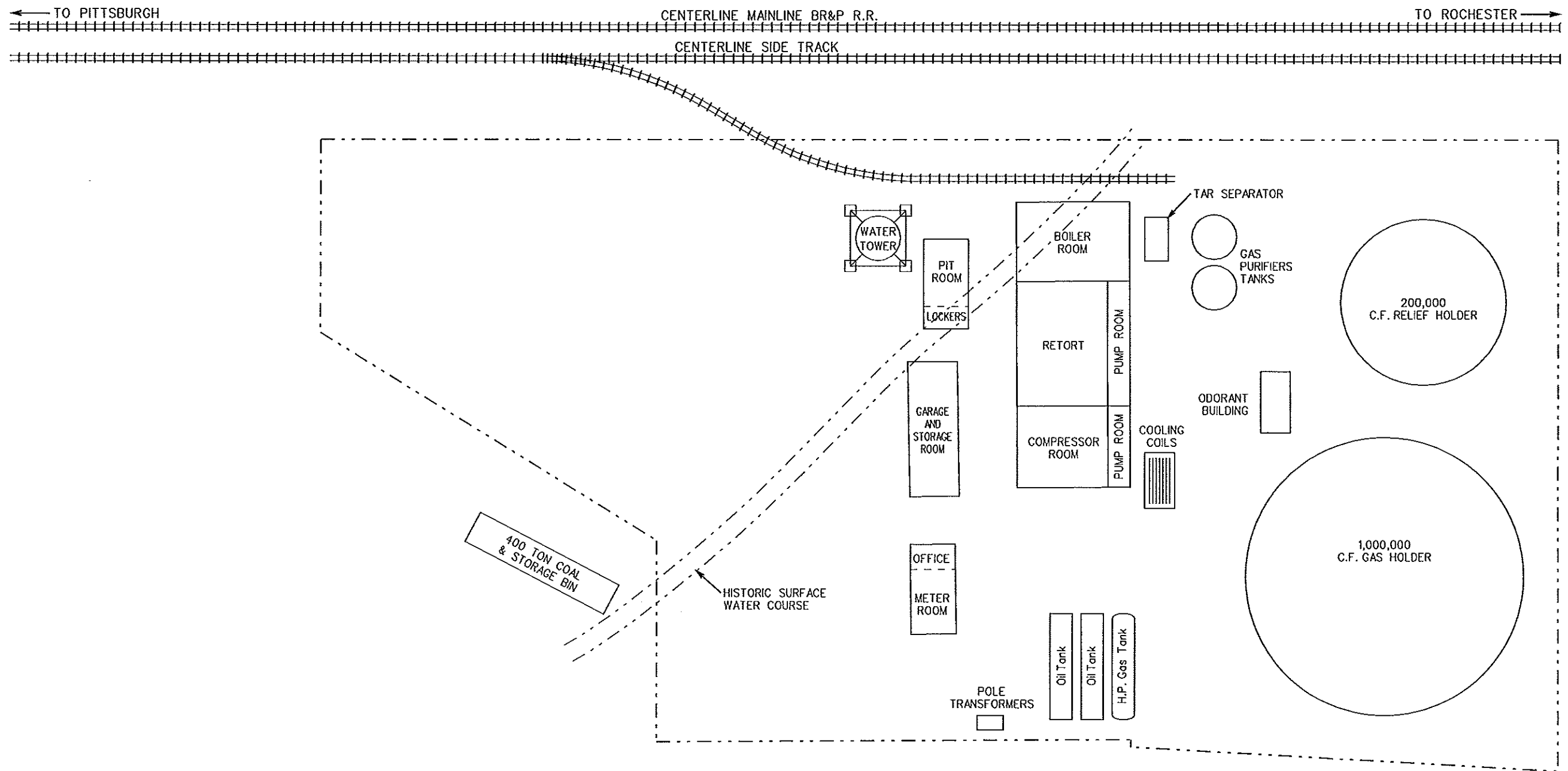
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RG&E File No. 86-1035D: Drawing No. 31570-61 - November 10, 1986.



Project No.
7250

Figure
2

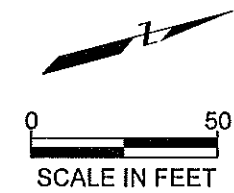
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EXPLANATION

----- Current Property Boundary Limit

NOTE:
Information from Pavilion Natural Gas Co.
Plant Site Layout Drawing.

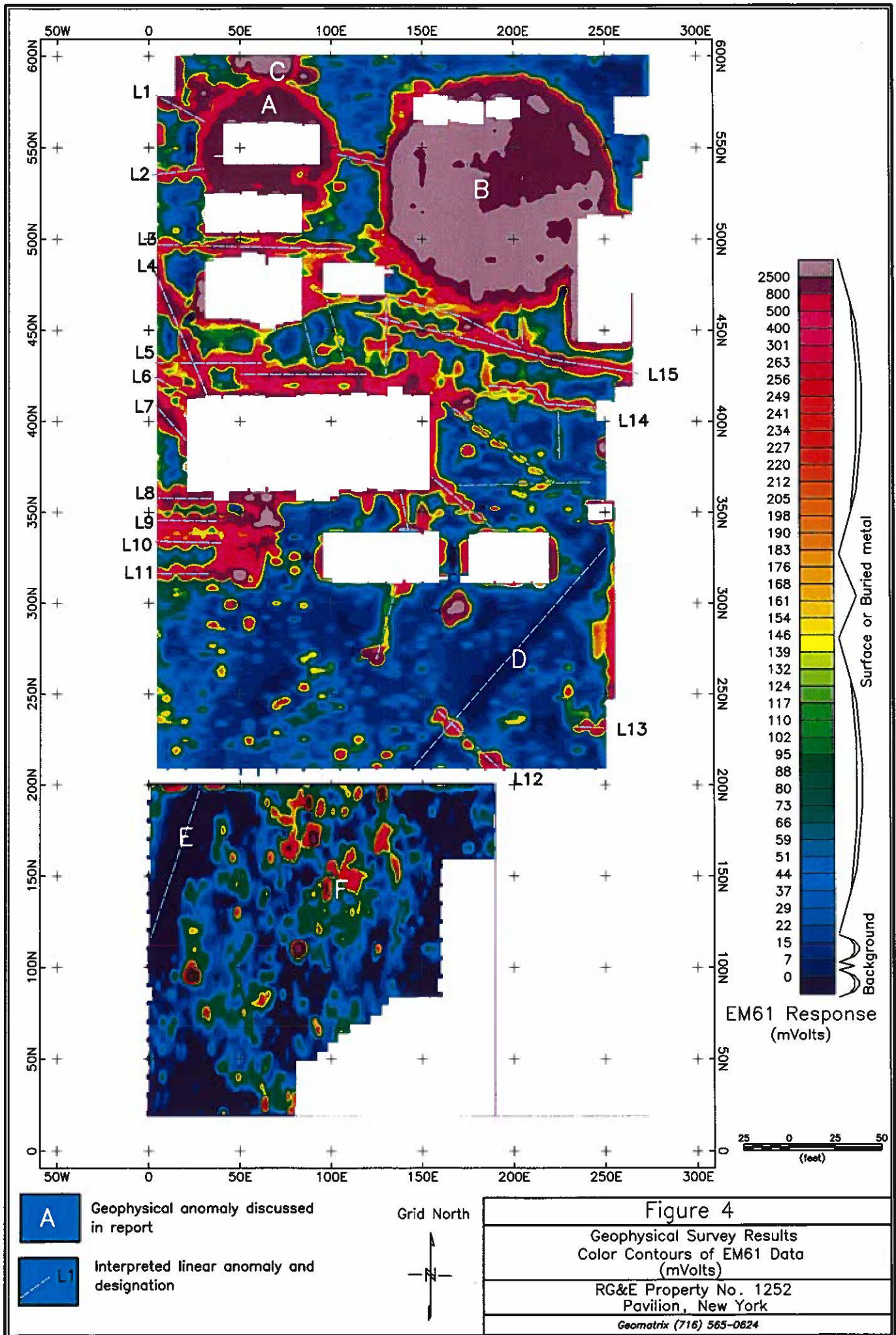


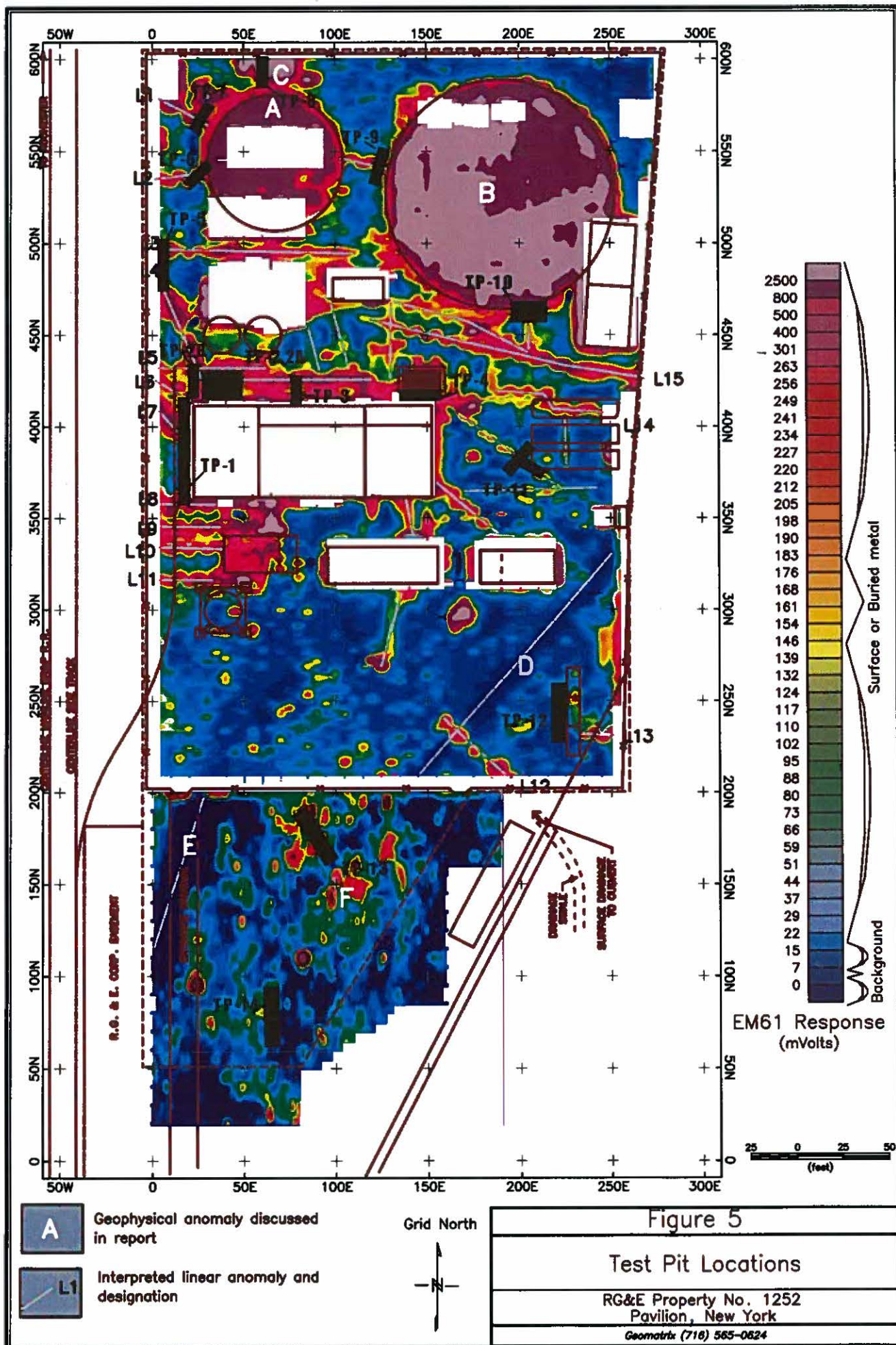
HISTORIC SITE STRUCTURES
AND MGP PLANT LAYOUT
RG&E Property No. 1252
Pavilion, New York



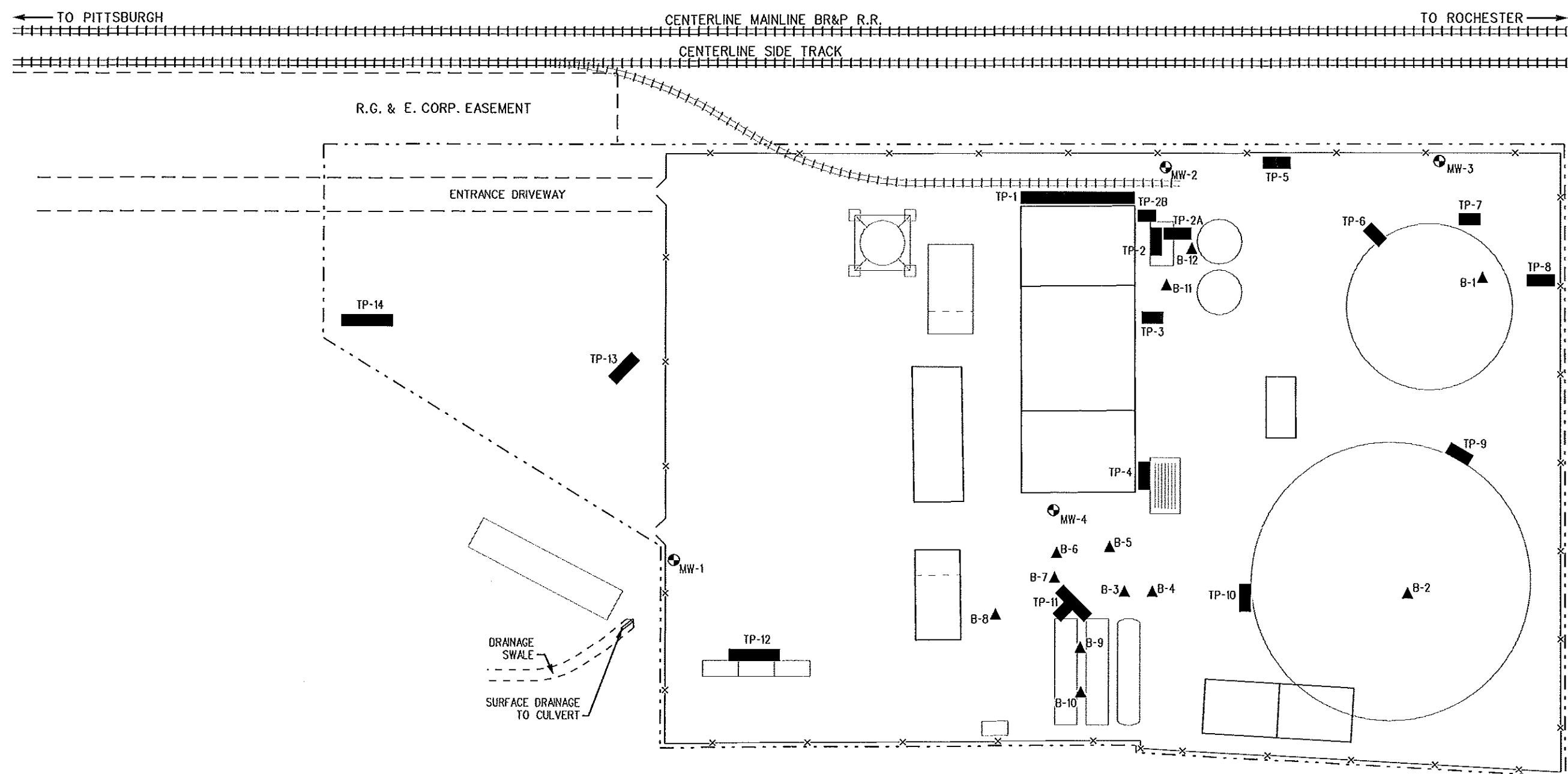
Project No.
7250

Figure
3

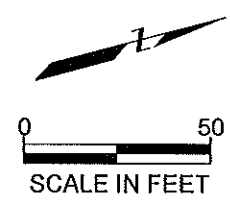




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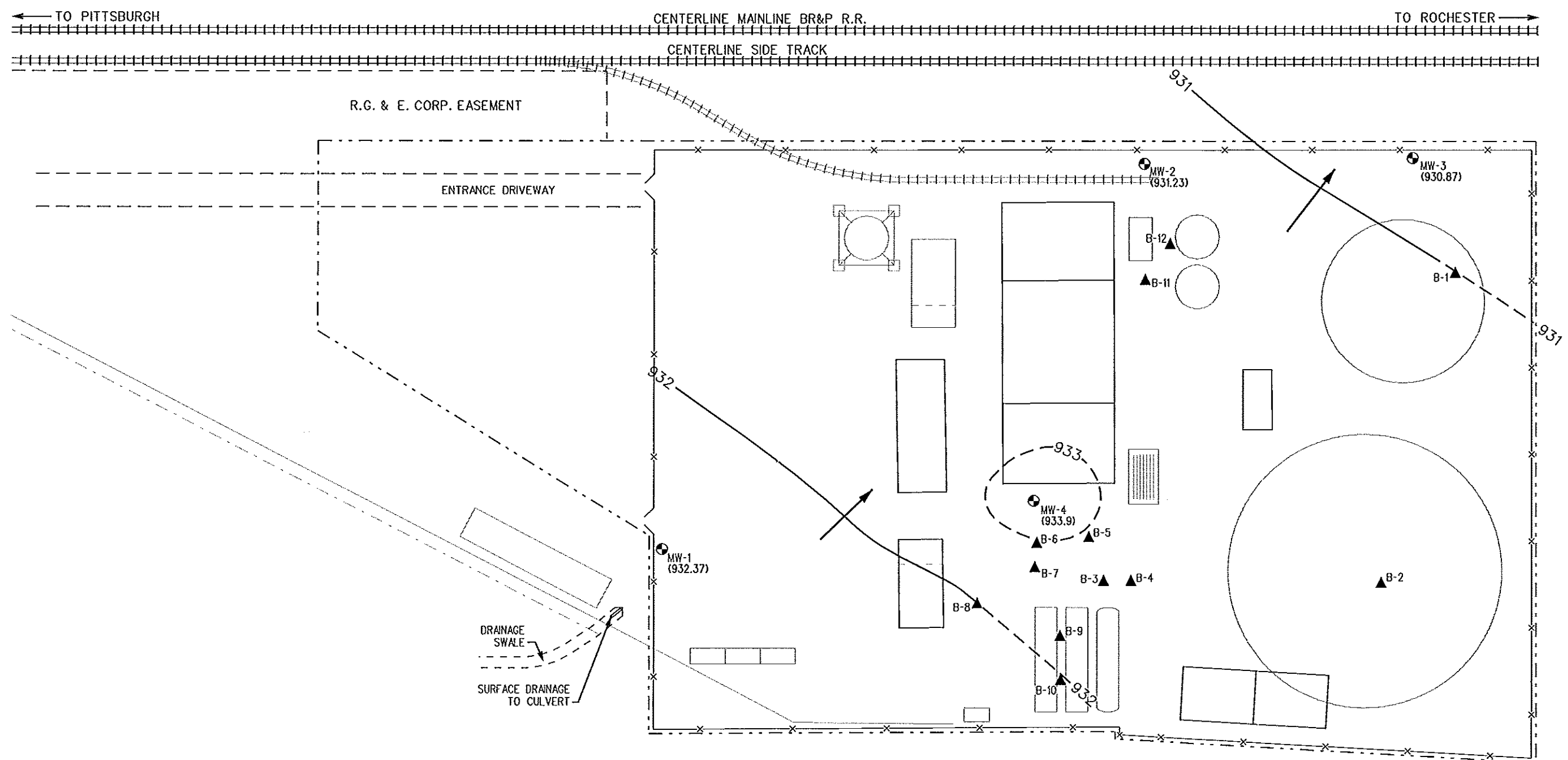


- EXPLANATION
- Current Property Boundary Limit
 - MW-4 ● Monitoring Well Location
 - B-7 ▲ Soil Boring Location
 - TP-3 ■ Test Pit Location

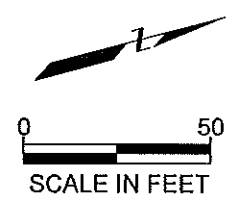


MONITORING WELL/ SOIL BORING AND TEST PIT LOCATIONS RG&E Property No. 1252 Pavilion, New York		
 GEOMATRIX	Project No. 7250	Figure 6

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- EXPLANATION
- 932 — Groundwater Elevation Contour (fmsl) on January 10, 2002
 - Groundwater Flow Direction
 - - - Current Property Boundary Limit
 - MW-4 ● Monitoring Well Location
 - B-7 ▲ Soil Boring Location



DIRECTION OF SHALLOW GROUNDWATER FLOW RG&E Property No. 1252 Pavilion, New York		
	Project No. 7250	Figure 7

APPENDIX A

Field Logs

APPENDIX A-1

Test Pit Logs

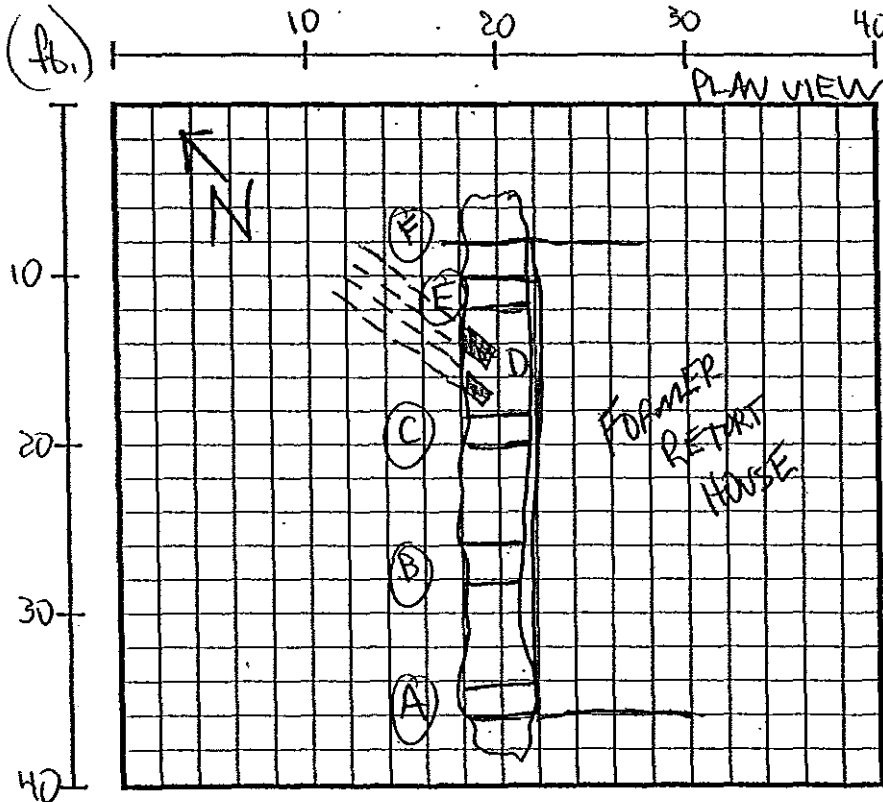
FIELD TEST PIT LOG

Job No. 7250
 Contractor SLC Environmental
 GMX Insp. MAC
 Weather Sunny, ~ 70°
 Location _____

Project RGE Pavilion
 Operator Greg Sarnet
 Elevation NA
 Equipment Case 580 L
 Started 6/26/01
 Completed 6/26/01

Test Pit No. TP-1

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

- material consists of gravel, coal-till, railroad ties & linker
- concrete (reinforced) structures exist at A, B, C & E.
- fill material is moist at a depth of 2.5' bgs
- native soil reached 3.5' bgs
- screen on soil at "B":
 - likely from timbers located at B.
- 2 steel pipes (8" Ø) located at (D)
 App terminate in TP-1 & don't enter the retort house.

PID = 0 ppm

SAMPLES

NO.	DEPTH (bgs)	NOTES
		NO SAMPLES COLLECTED

EXCAVATION NOTES

WATER LEVELS

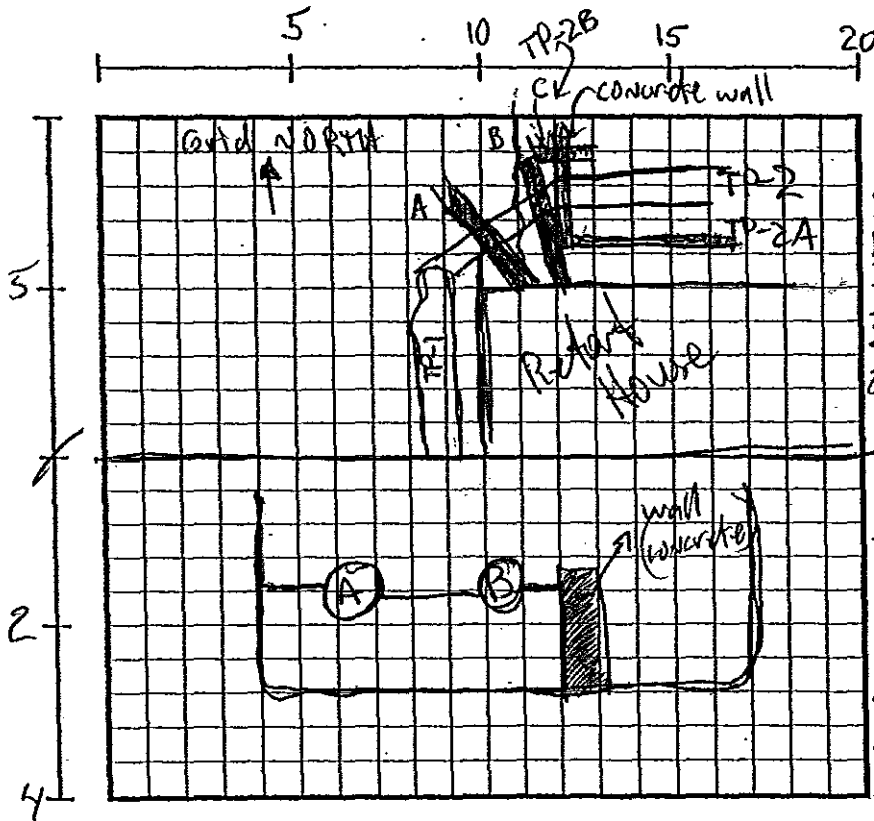
TIME	WATER DEPTH (bgs)

FIELD TEST PIT LOG

Job No. 7250 Project RGE Pavilion
 Contractor SLC Environmental Operator Greg James Equipment Case 580L
 GMX Insp. MAE Elevation NA Started 6/26/01
 Weather Sunny, 80°F Completed 6/26/01
 Location north west / dist of rebar house

Test Pit No. TP-2/2A/2B

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

- Material consists of gravel, gravel (clunker), brick, mixed.
- 8" Ø steel pipe exists at "A". Pipe is empty & corroded.
- 8" Ø steel pipe exists at "B", and "C" - tank.
- Fill material is dry.
- excavation depth is 3'.
- Grid south edge of tank is concrete.
- large (whole) brick & fill inside the tank.
- TP-2 & TP-2A begin to fill with water @ 3' bgs.
- NAPL blobs apparent in TP-2 but NOT TP-2A.

PID = 3ppm

SAMPLES

NO.	DEPTH (bgs)	NOTES
TP-2	1.5'	- grab sample
TP-2B	1.5'	- grab sample

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

FIELD TEST PIT LOG

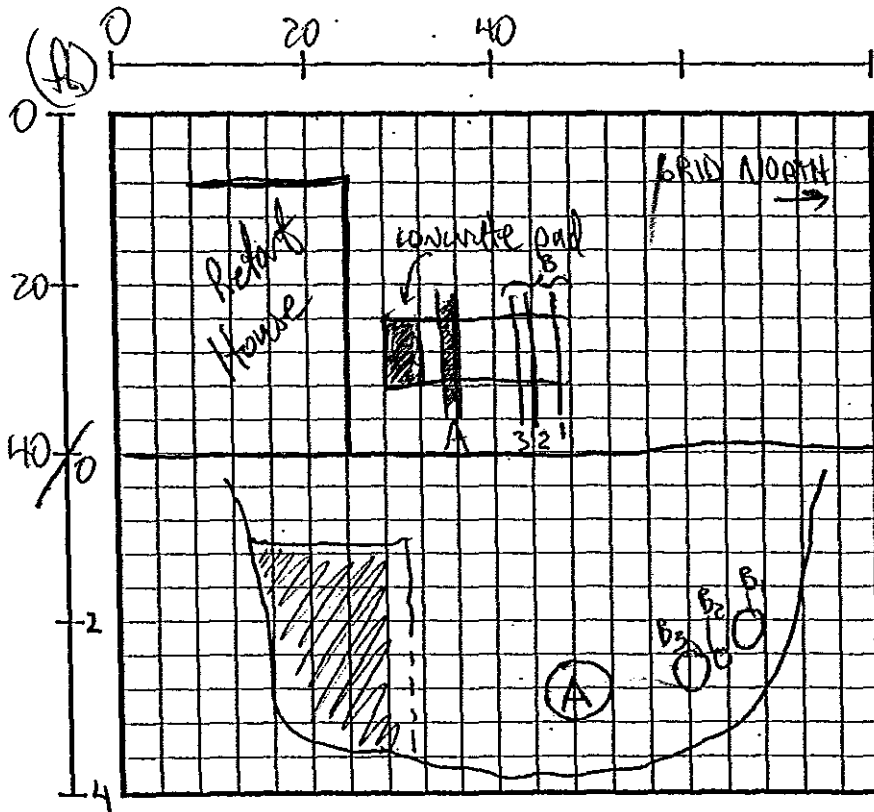
Job No. 7250
 Contractor SLC Environmental
 GMX Insp. MAR
 Weather Sunny, ~70°F
 Location see sketch

Project R6EE Pavilion
 Operator Greg Jant
 Elevation NA

Test Pit No. TP-3

Equipment Case 550L
 Started 6/26/01
 Completed 6/26/01

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

fill material consists
 of gravel, brick (dam)
 - moist @ 3' bgs

10" ϕ Pipe exists at "A"

Pipes B₁ (2" ϕ), B₂ (2" ϕ)

B₃ (8" ϕ) exist
 at points on sketch.

- groundwater not encountered

SAMPLES

NO.	DEPTH (bgs)	NOTES
TP-3	1.5 - 2.0	Gravel sample

PID = 0 ppm

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

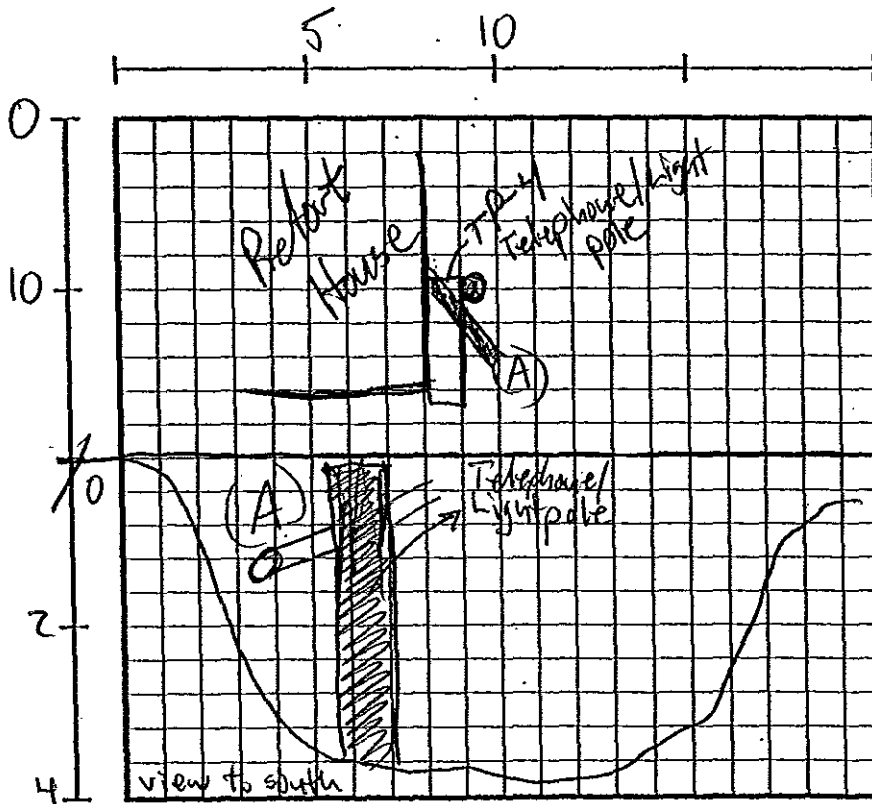
FIELD TEST PIT LOG

Test Pit No.	TP-4
--------------	------

Job No. 7250
 Contractor SLC Environmental
 GMX Insp. MAE
 Weather Sunny, ~70°F
 Location see sketch

Project R66E Pavilion
 Operator Greg Jandt
 Elevation NA
 Equipment Cave 550L
 Started 6/26/01
 Completed 6/26/01

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists
 of asphalt cold-patch,
 clay, gravel
 steel pipe (6"Ø) exists
 at A
 - groundwater not
 encountered. Fill
 material is damp to moist.

SAMPLES

NO.	DEPTH (bgs)	NOTES
—	—	NO SAMPLES COLLECTED

PI = 0 ppm

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

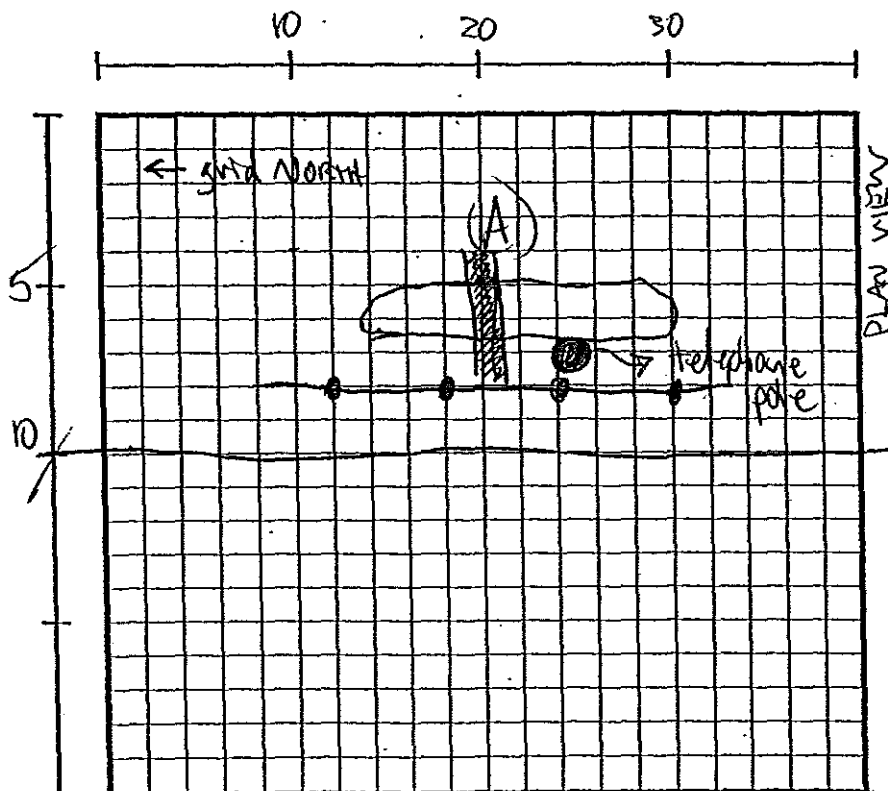
FIELD TEST PIT LOG

Job No. 7250
 Contractor SLC Environmental
 GMX Insp. MAE
 Weather sunny ~ 80°F
 Location see sketch

Project R66 E Pavilion
 Operator Greg Samet
 Elevation NA

Test Pit No. TP-5
 Equipment Case 550C
 Started 6/26/01
 Completed 6/26/01

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists of gravel, sand, brick, wood, etc.

10" Ø Pipe Exists at 'A'.

- Fill also contains substantial quantities of decomposed wood chips. (black / reddish orange in color) (moist)

bottom of excavation @ 3.0' bgs

- groundwater not encountered.

PIV = 1-2 ppm above background

SAMPLES

NO.	DEPTH (bgs)	NOTES
TP-5	1.5-2.0'	- Grab sample of decomposed wood chips

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

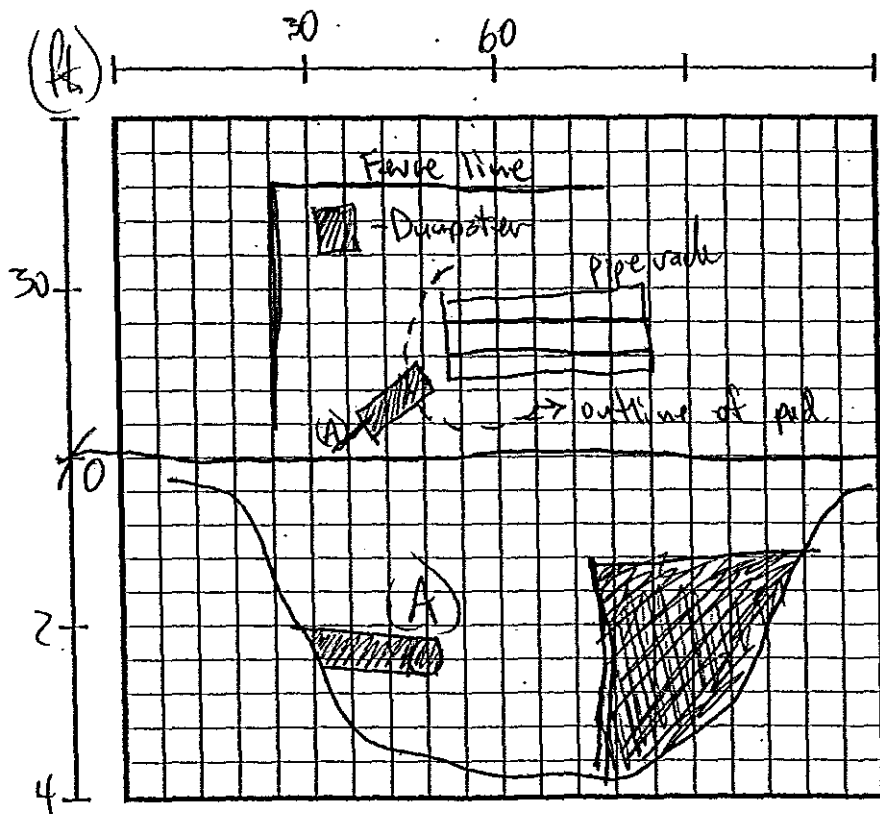
FIELD TEST PIT LOG

Job No. 7250
 Contractor SL Environmental
 GMX Insp. MAE
 Weather sunny ~60°F
 Location see sketch

Project R6 & E Pavilion
 Operator Greg Janek
 Elevation MAJ
 Equipment Case 350L
 Started 6/26/01
 Completed 6/26/01

Test Pit No. TP-6

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists of gravel, chert, refractory brick.

- concrete pad excavated @ 1.5' bgs thickness = 18"

6" Ø pipe exists at "A"

gravel/chert not encountered

SAMPLES

NO.	DEPTH (bgs)	NOTES
		NO SAMPLES COLLECTED

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

PID = 0 ppm

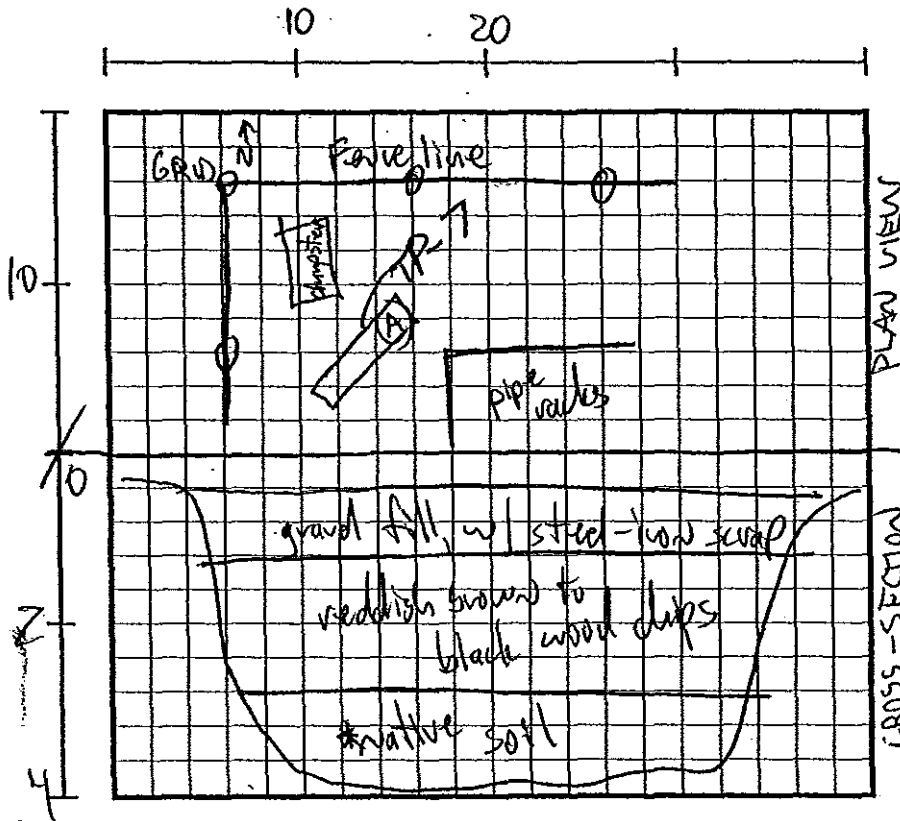
FIELD TEST PIT LOG

Job No. 7250
 Contractor SLC Environmental
 GMX Insp. MAE
 Weather Sunny, 60°F
 Location Site sketch

Project B6th E Pavilion
 Operator Carey Janet
 Elevation NA
 Equipment Case 350L
 Started 6/27/01
 Completed 6/27/01

Test Pit No. TP 7

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists of gravel, brick, concrete block, decomposed wood chips (black/reddish brown)

- steel/iron scrap exists at NE end NE corner of T.P. (A)

* Native soil encountered at a depth of 3' bgs. damp to moist sand & silt with clay (0-5% gravel)

- groundwater not encountered.

SAMPLES

NO.	DEPTH (bgs)	NOTES
1	-	NO SAMPLES COLLECTED

PID = 0 ppm

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

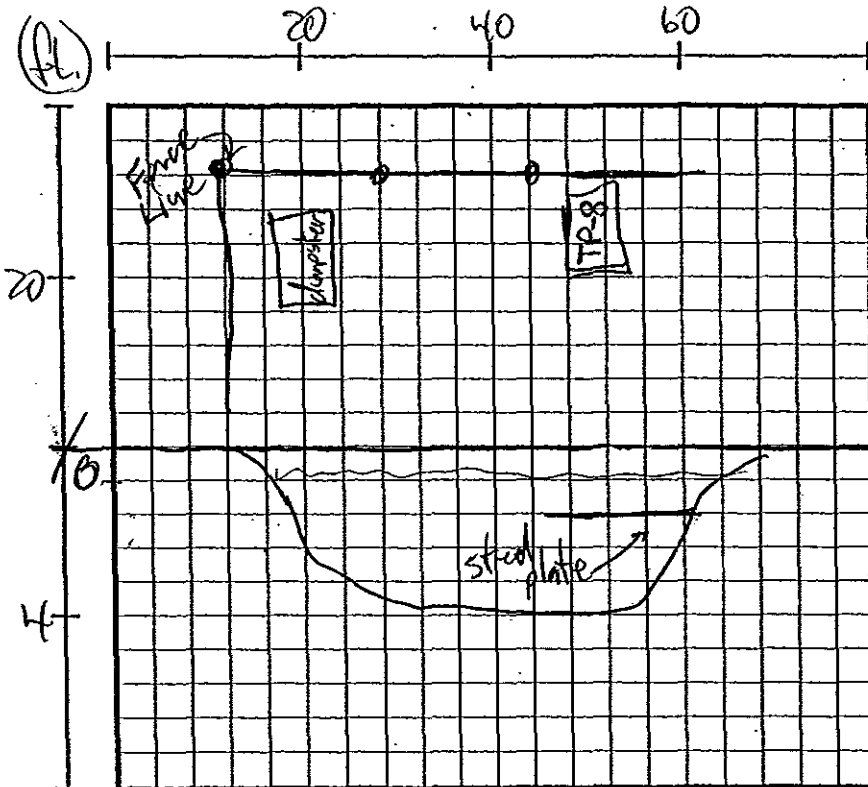
FIELD TEST PIT LOG

Job No. 7250
 Contractor SL Environmental
 GMX Insp. MAL
 Weather Sunny, ~65°F
 Location see sketch

Project R60E Partition
 Operator Greg Jankis
 Elevation NA
 Equipment Case 580L
 Started 6/27/01
 Completed 6/27/01

Test Pit No. TP-8

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

All material consists of
 gravel, brick, concrete
 (dry)

- large steel plate
 encountered @
 1 fbs

- groundwater not
 encountered.

SAMPLES

NO.	DEPTH (fbs)	NOTES
		NO SAMPLES COLLECTED

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (fbs)

PID = 0 ppm

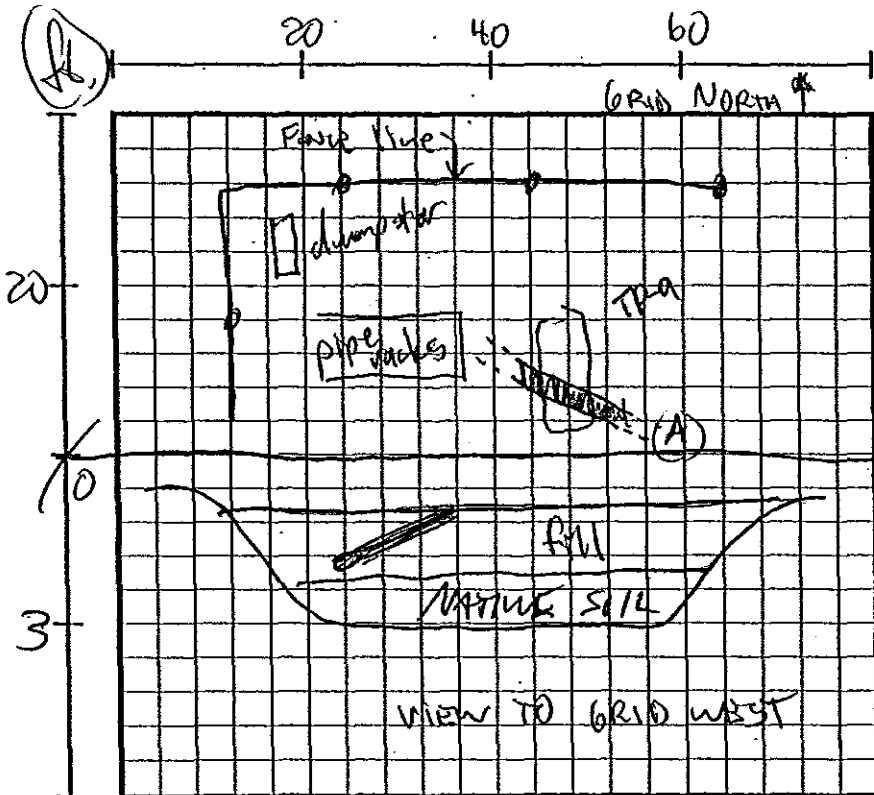
FIELD TEST PIT LOG

Job No. 7250
 Contractor SLC Environmental
 GMX Insp. MAE
 Weather Sunny ~70°F
 Location see sketch

Project R6 & E Pavilion
 Operator Gary Daniels
 Elevation NA
 Equipment Cave 580L
 Started 6/27/01
 Completed 6/27/01

Test Pit No. TP-9

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill consists of gravel, broken & large, loose fill to a depth of ~1' bgs (dry)

6" Ø steel pipe exists at 'A'

- native soil exists approximately at a depth of 2' bgs - fs w/ silt & trace gravel (moist)
- groundwater not encountered

SAMPLES

NO.	DEPTH (bgs)	NOTES
TP-9	20' bgs	Gravel sample

PID = 0 ppm

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

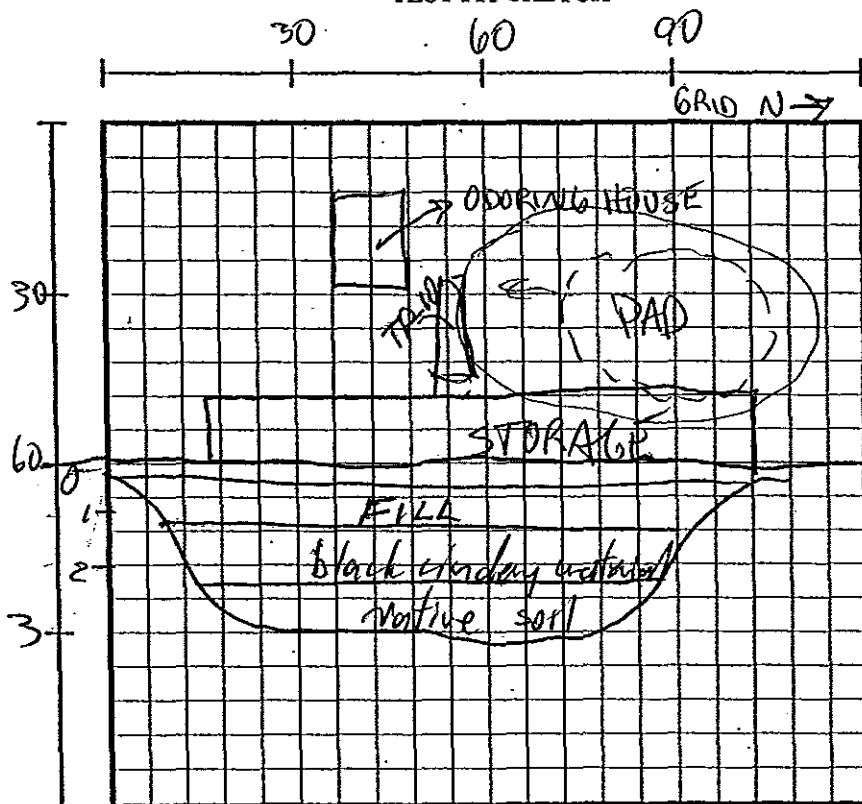
FIELD TEST PIT LOG

Job No. 7250
 Contractor SW Environmental
 GMX Insp. NAP
 Weather sunny ~70°F
 Location see sketch

Project R60 E Pavilion
 Operator G. Sandoz
 Elevation NA

Test Pit No. TP-10
 Equipment Cape 550L
 Started 6/27/01
 Completed 6/27/01

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists of gravel, brick glass black clinday ash like material

- concrete pad encountered @ a depth of 1.5 bgs

- steel pipe (A), 3" ϕ

- black clinday material is 1-1.5' in thickness

- groundwater not encountered -

SAMPLES

NO.	DEPTH (bgs)	NOTES
TP-10	1.5-2.0	Grab sample of black, clinday fill

PID = 0 ppm

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

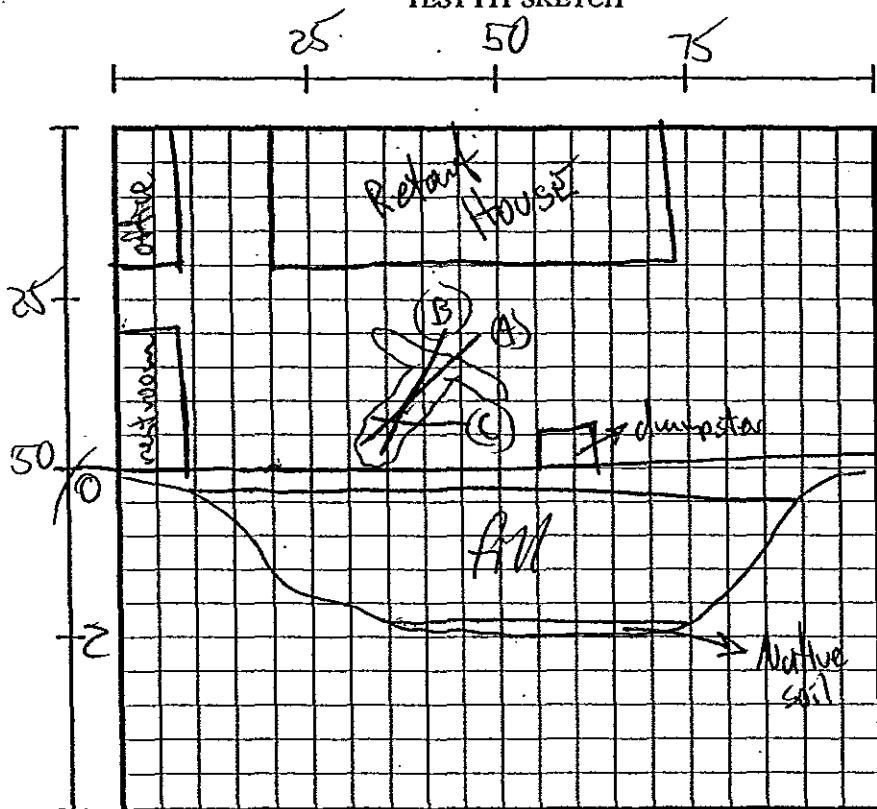
FIELD TEST PIT LOG

Job No. 7250
 Contractor SL Environmental
 GMX Insp. MAR
 Weather Sunny ~70°F
 Location see sketch

Project R68E Pavilion
 Operator Corey Samet
 Elevation NA

Test Pit No. TP-11
 Equipment Case 550L
 Started 6/27/01
 Completed 6/27/01

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists of coarse gravel, black chert, fill, retaining brick

- 3" ϕ pipe encountered at (A)

- petroleum odors present in test pit

- 3" ϕ pipe exists at (B)

- native soil encountered @ ~2' bgs fine sand, silt, trace gravel, clay (dry to damp)

(A) is cut off and has a hole corroded in its sides

(B) appears to be a replacement of (A)

- a small, 1" ϕ pipe of unknown origin enters the pit from grid nr. (C)

PID = 16 pps within trench

SAMPLES

NO.	DEPTH (bgs)	NOTES
TP-11	1.5-2.0	Gravel sand

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

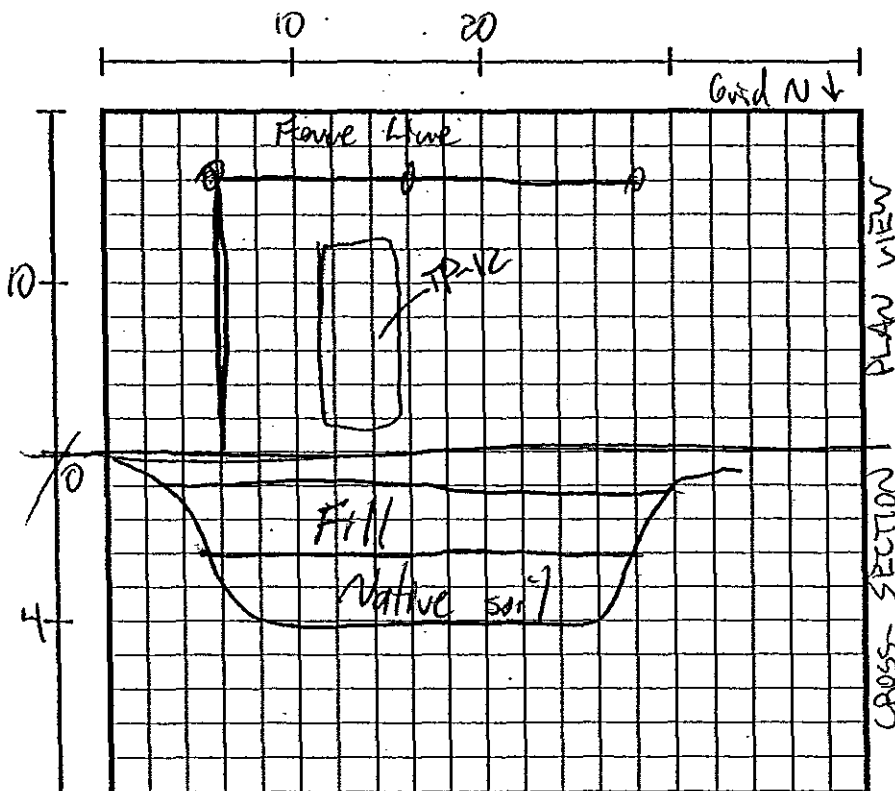
FIELD TEST PIT LOG

Job No. 7250
 Contractor SLC Environmental
 GMX Insp. MAE
 Weather Sunny, ~70°F
 Location _____

Project RGE Poulton
 Operator Greg Sand
 Elevation MA
 Equipment Case 550L
 Started 6/24/01
 Completed 6/24/01

Test Pit No. TP-12

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists of asphalt cold-patch, gravel, brick, sand, coal (dry)

Native soil encountered at a depth of 2' bgs (silt w/ clay) becoming moist @ 3.5' to 4.0' bgs

groundwater not encountered

SAMPLES

NO.	DEPTH (bgs)	NOTES
TP-12	1.5-2.0	Gravel sample

PID = 0 ppm

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

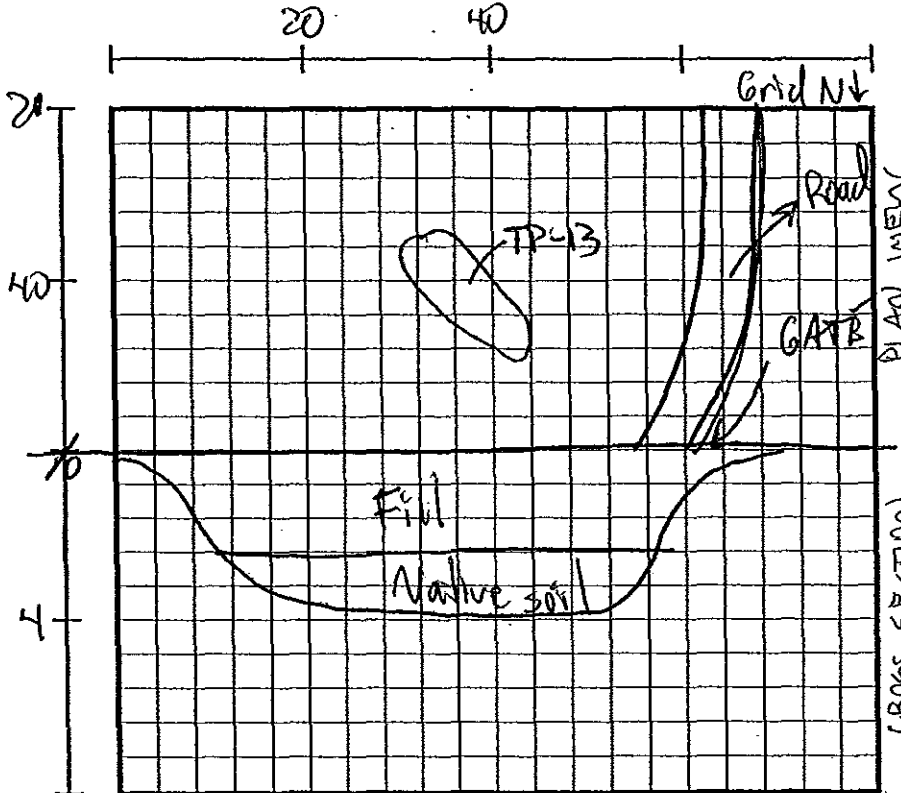
FIELD TEST PIT LOG

Test Pit No. **TP-13**

Job No. **7250**
 Contractor **SLC Environmental**
 GMX Insp. **MAE**
 Weather **Sunny ~70°F**
 Location **see sketch**

Project **R66 E Pavilion**
 Operator **Greg Jurek**
 Elevation **NA**
 Equipment **Cape 550L**
 Started **6/27/01**
 Completed **6/27/01**

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists of gravel, scrap metal, coal, chunks, paper (any)

- native soil reached @ 2.5 to 3.0 fgs damp to moist (silt w/ clay)

- groundwater not encountered

SAMPLES

NO.	DEPTH (fgs)	NOTES
		NO SAMPLES COLLECTED

PID = 0 ppm

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (fgs)

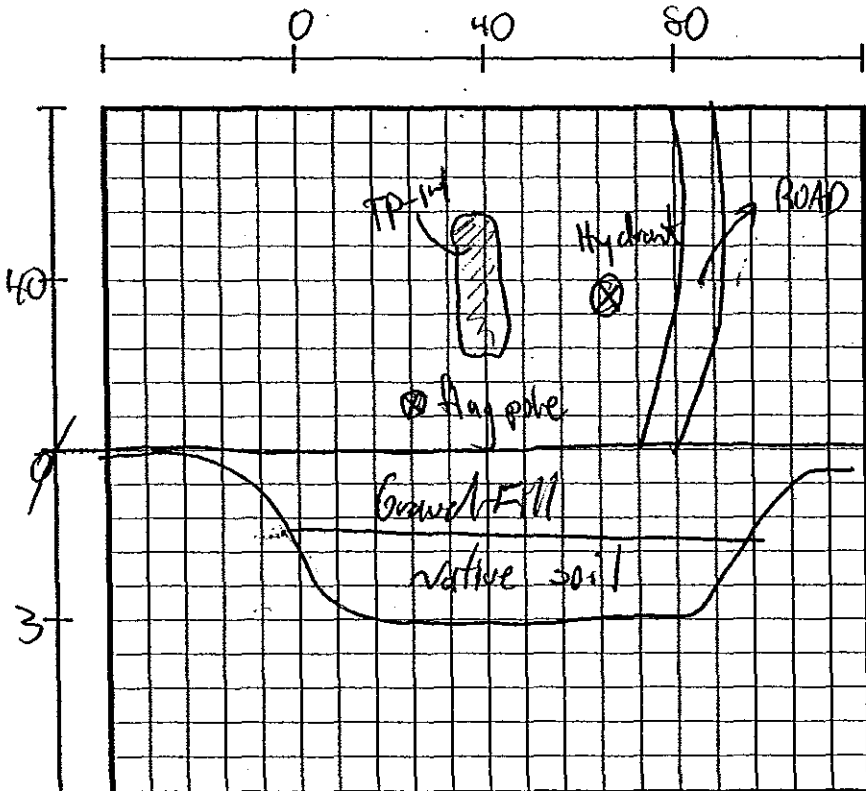
FIELD TEST PIT LOG

Job No. 7250
 Contractor SLC Environmental
 GMX Insp. MAE
 Weather Sunny 75°F
 Location see sketch

Project R6 & E Pavilion
 Operator Greg Jank
 Elevation N/A
 Equipment Case 350L
 Started 6/27/01
 Completed 6/27/01

Test Pit No. TP-14

TEST PIT SKETCH



NOTES / STRATA DESCRIPTIONS

Fill material consists of gravel with iron oxide staining, metal pieces.

- native soil reached at a depth of 1.5' bgs. (sandy-silt) moist.

- groundwater not encountered

SAMPLES

NO.	DEPTH (bgs)	NOTES
TP-14	1.5'	bulk sample

PID = Oppen

EXCAVATION NOTES

WATER LEVELS

TIME	WATER DEPTH (bgs)

APPENDIX A-2

Soil Boring Logs

PROJECT: RG & E Property No. 1252 Pavilion, New York					Log of Boring No. B-1				
BORING LOCATION: Center of small former gas holder					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 6.0 fbgs		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER: 3.5 feet		FIRST COMPL.		
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	

DEPTH (feet)	SAMPLES				OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot	OVM		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
						Surface Elevation: fmsl	
1						sand with silt and med. angular gravel (fill), dry to damp	No odors
2						CONCRETE PAD (former gas holder pad)	
3						Poorly graded SAND with SILT (SP-SM) 60% fine to med. sand, 40% silt, 2.5Y 4/3, moist, firm	
4	1						V
5							
6							
7						EOB at 6.0 fbgs	
8							
9							
10							

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BORING BORINGS.GPJ (2/02)

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PROJECT: RG & E Property No. 1252 Pavilion, New York					Log of Boring No. B-2				
BORING LOCATION: Center of large former gas holder					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/1/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 6.0 fbgs		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER: 3 feet		COMPL.		
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	
DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.		DRILLING REMARKS		
	Sample No.	Sample	Blows/ foot		Surface Elevation: fmsl				
1					sand with silt and med. angular gravel (fill), dry to damp		No odors		
2					CONCRETE PAD (former gas holder pad)				
3					Poorly graded SAND with SILT (SP-SM) 60% fine to med. sand, 40% silt, 2.5Y 4/3, moist, firm				
4	1		NA						
5									
6									
7					EOB at 6.0 fbgs				
8									
9									
10									

PROJECT: RG & E Property No. 1252 Pavillion, New York					Log of Boring No. B-3				
BORING LOCATION: Former oil AST area					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 8.0 fbg		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER: 4.5 feet		COMPL.		
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	

DEPTH (feet)	SAMPLES				OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot	ft		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react, w/HCl, geo. inter.	
						Surface Elevation: fmsl	
1						fine sand with med angular gravel, trace asphalt (fill), dry, loose	
2	1			NA		fine sand with silt, little med. gravel (fill), damp	OVM = 8ppm strong petroleum hydrocarbon odor throughout sample 1
3						Poorly graded SAND with SILT (SP-SM) 60% fine sand, 40% silt, moist, firm, 2.5Y 4/1	
4							
5							OVM = 20ppm odors end where saturated conditions observed
6	2			NA			
7							
8							OVM = 15ppm
9							
10						EOB at 8.0 fbg	

PROJECT: RG & E Property No. 1252 Pavilion, New York				Log of Boring No. B-4			
BORING LOCATION: Former oil AST area				ELEVATION: fmsl		DATUM: NA	
DRILLING CONTRACTOR: Nothnagle				DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01	
DRILLING METHOD: Direct push (Geoprobe)				TOTAL DEPTH: 8.0 fbgs		MEASURING POINT: ground surface	
DRILLING EQUIPMENT: BK-81				DEPTH TO WATER:		FIRST 4.5 feet	
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves				LOGGED BY: MAC			
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa		REG. NO.

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot		NAME (USCS Symbol); color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: fmsl	
1					fine sand with silt and fine subangular gravel (fill), loose to soft, damp	
2	1		NA			OVM = 0.1ppm
3					Poorly graded SAND with SILT (SP-SM) 80% very fine sand, 20% silt, damp, firm, 2.5Y 4/1	OVM = 5 ppm slight petroleum hydrocarbon odor
4						
5						
6	2		NA			OVM = 0ppm
7						
8						
9					EOB at 8.0 fbgs	
10						

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PROJECT: RG & E Property No. 1252 Pavilion, New York					Log of Boring No. B-5				
BORING LOCATION: Former oil AST area					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 8.0 fbgs		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER:		FIRST 4.5 feet		COMPL.
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer			RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: fmsl	
1					fine to med. sand with silt, angular gravel, clinker (fill), dry	
2	1		NA		Poorly graded SAND with SILT (SP-SM) 80% fine sand, 20% silt, damp, firm, 2.5Y 4/1 	
3						
4						
5						
6	2		NA			
7						
8						
9					EOB at 8.0 fbgs	
10						

OVM= 2ppm no odors

V

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BORING BORINGS.GPJ (2/02)

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PROJECT: RG & E Property No. 1252 Pavilion, New York					Log of Boring No. B-6				
BORING LOCATION: Former oil AST area					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 8.0 fbg		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER:		FIRST 4.8 feet		COMPL.
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	

DEPTH (feet)	SAMPLES				OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot	ft		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
						Surface Elevation: fmsl	
1						fine to med. sand with silt and fine angular gravel, little clinker (fill), damp to moist, loose	
2	1			NA		Poorly graded SAND with SILT (SP-SM) 80-90% fine sand, 10% silt, damp, trace low plasticity fines, firm, 2.5Y 4/2	OVM = 5ppm no odors
3							
4							
5						Poorly graded SAND with GRAVEL (SP) 90% coarse sand, 10% fine subrounded gravel, saturated, loose, 2.5Y 4/1	OVM = 0.3ppm
6	2			NA			
7						Poorly graded SAND with SILT (SP-SM) 80% fine sand, 20% silt, saturated, soft, 2.5Y 4/2	OVM = 1ppm
8							
9							
10						EOB at 8.0 fbg	

BORING BORINGS.GPJ (2/02)

PROJECT: RG & E Property No. 1252 Pavilion, New York					Log of Boring No. B-7				
BORING LOCATION: Former oil AST area					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 8.0 fbgs		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER:		FIRST 4.8 feet		COMPL.
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	

DEPTH (feet)	SAMPLES				OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot	ft		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
						Surface Elevation: fmsl	
1						fine sand with silt, gravel, clinker, (fill), moist, loose	
2	1			NA		↓	OVM = 1ppm no odors
3						Poorly graded SAND with SILT (SP-SM) 60% fine sand, 40% silt, locally coarser grained (med. to coarse sand), soft to firm, 2.5Y 4/1	OVM = 3ppm
4							
5							OVM = 6ppm
6	2			NA			OVM = 5ppm
7							
8							
9						EOB at 8.0 fbgs	
10							

BORING BORINGS.GPJ (2/02)

PROJECT: RG & E Property No. 1252 Pavilion, New York				Log of Boring No. B-8			
BORING LOCATION: Former oil AST area				ELEVATION: fmsl		DATUM: NA	
DRILLING CONTRACTOR: Nothnagle				DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01	
DRILLING METHOD: Direct push (Geoprobe)				TOTAL DEPTH: 8.0 fbgs		MEASURING POINT: ground surface	
DRILLING EQUIPMENT: BK-81				DEPTH TO WATER: 4 feet		FIRST COMPL.	
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves				LOGGED BY: MAC			
HAMMER WEIGHT: NA		DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: fmsl	
1					fine sand with silt, gravel, clinker, (fill), moist, loose	
2	1		NA		Poorly graded SAND with SILT (SP-SM) 60% fine sand, 40% silt, locally coarser grained (fine subrounded gravel), soft to firm, 2.5Y 4/1	OVM = 0.1ppm no odors OVM = 0.2ppm
3						
4						
5						
6	2		NA			
7						
8						
9						
10					EOB at 8.0 fbgs	

PROJECT: RG & E Property No. 1252 Pavilion, New York					Log of Boring No. B-9				
BORING LOCATION: Former oil AST area					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 8.0 fbgs		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER: 4 feet		COMPL.		
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: fmsl	
1					fine sand with silt and gravel, clinker (fill) dry, loose	
2	1		NA			OVM = 1ppm slight petroleum hydrocarbon odor 2-3 fbgs
3					↓ Poorly graded SAND with SILT (SP-SM) 80% fine sand, 20% silt, damp to moist, firm, 2.5Y 4/1	OVM = 20ppm
4						▽
5						
6	2		NA			OVM = 4ppm
7						
8						
9					EOB at 8.0 fbgs	
10						

PROJECT: RG & E Property No. 1252 Pavilion, New York					Log of Boring No. B-10				
BORING LOCATION: Former oil AST area					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 8.0 fbgs		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER:		FIRST 4 feet		COMPL.
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: fmsl	
1					fine sand with silt and med. angular gravel (fill), dry to damp	
2	1			NA		
3						
4						
5						
6	2			NA		
7						
8					grading to CLAY (CL) 100% high plasticity fines, damp, firm to hard, 2.5Y 4/2	
9					EOB at 8.0 fbgs	
10						

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PROJECT: RG & E Property No. 1252 Pavilion, New York					Log of Boring No. B-11				
BORING LOCATION: Grid east of former tar separator tank					ELEVATION: fmsl		DATUM: NA		
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01		
DRILLING METHOD: Direct push (Geoprobe)					TOTAL DEPTH: 8.0 fbgs		MEASURING POINT: ground surface		
DRILLING EQUIPMENT: BK-81					DEPTH TO WATER:		FIRST 4 feet		COMPL.
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	

DEPTH (feet)	SAMPLES				OVM (ppm)	DESCRIPTION	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot	ft		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
						Surface Elevation: fmsl	
1						fine sand with silt and gravel (fill) dry to damp, loose	
2	1			NA		fine sand with silt, brick, some gravel, trace wood pieces, black, moist	
3							
4							OVM = 30ppm strong petroleum hydrocarbon odor throughout B-11.
5						Poorly graded SAND with SILT (SP-SM) 80% fine sand, 20% silt, wet, soft, black	OVM = 35ppm
6	2			NA			
7							OVM = 20ppm sheen on soil and water in sleeve.
8							
9						EOB at 8.0 fbgs	
10							

PROJECT: RG & E Property No. 1252 Pavilion, New York				Log of Boring No. B-12			
BORING LOCATION: Grid North of former far separator tank				ELEVATION: fmsl		DATUM: NA	
DRILLING CONTRACTOR: Nothnagle				DATE STARTED: 12/11/01		DATE FINISHED: 12/11/01	
DRILLING METHOD: Direct push (Geoprobe)				TOTAL DEPTH: 8.0 fbgs		MEASURING POINT: ground surface	
DRILLING EQUIPMENT: BK-81				DEPTH TO WATER: 4 feet		COMPL.	
SAMPLING METHOD: 4 foot stainless steel barrel with acetate sleeves				LOGGED BY: MAC			
HAMMER WEIGHT: NA		DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	DRILLING REMARKS
	Sample No.	Sample	Blows/ foot		Surface Elevation: fmsl	
1					fine sand with silt and gravel (fill) dry to damp, loose	
2	1		NA		fine sand with silt, brick, some gravel, trace wood pieces, black, moist	
3						
4						OVM = 15ppm strong petroleum hydrocarbon odor throughout B-12. Sheen on water in sleeve.
5					Poorly graded SAND with SILT (SP-SM) 80% fine sand, 20% silt, wet, soft, black	
6	2		NA			OVM = 10ppm sheen on soil and water.
7						
8					EOB at 8.0 fbgs	
9						
10						

BORING BORINGS.GPJ (2/02)

APPENDIX A-3

Monitoring Well Construction Logs

PROJECT: RG&E Property No. 1252 Pavilion, New York					Log of Well No. MW-1				
BORING LOCATION: Southeastern corner of site					TOP OF RISER ELEVATION: 939.19 fmsl			DATUM: NA	
DRILLING CONTRACTOR: Nothnagle					DATE STARTED: 12/10/01			DATE FINISHED: 12/10/01	
DRILLING METHOD: 4 1/4" HSA					TOTAL DEPTH: 16.2 fbgs			SCREEN INTERVAL: 11-16 fbgs	
DRILLING EQUIPMENT: BK-81					DEPTH TO FIRST WATER: 11 ft			COMPL. CASING: 2" dia. PVC	
SAMPLING METHOD: 2" diameter stainless steel split spoons					LOGGED BY: MAC				
HAMMER WEIGHT: NA			DROP: 140 lb. Autohammer		RESPONSIBLE PROFESSIONAL: Richard H. Frappa			REG. NO.	

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/foot		NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	
Surface Elevation: fmsl						
1	1		7	0	Fine to medium sand, silt, gravel, asphalt (fill), some iron oxide staining (10YR 5/8). Grading to black slag pieces at 1' bgs, dry to damp, loose	cement/ bentonite grout 2" diameter PVC riser 3/8" bentonite pellets #00N filter sand 5.0' PVC well screen, 0.010 slot PVC endcap
2						
3	2		4	0	Poorly graded SAND with SILT (SP-SM) 60% fine sand, 40% silt, trace low plasticity fines, damp to moist, 10YR 3/3	
4						
5	3		5	0		
6						
7	4		13	0	grading to 2.5Y 5/3	
8					Poorly graded SAND with SILT (SP-SM) interbedded with SILT with CLAY (SC) 2.5Y 5/3, moist, soft	
9	5		11	0		
10						
11	6		12	0	Poorly graded SAND with SILT (SP-SM) 80-100% fine to med. sand, with trace to 20% silt, wet to saturated, 5YR 4/1, soft	
12						
13	7		10	0		
14						
15	8		8	0		
16					SILT with CLAY (SC) 80% silt, 20% high plasticity fines, wet, soft, 5YR 4/1	
17					EOB at 16.2 fbgs	
18						
19						
20						

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WELL_OVM ALL4.GPJ (2/02)
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PROJECT: RG&E Property No. 1252 Pavilion, New York		Log of Well No. MW-2	
BORING LOCATION: Western edge of site		TOP OF RISER ELEVATION: 935.60 fmsl	DATUM: NA
DRILLING CONTRACTOR: Nothnagle		DATE STARTED: 12/10/01	DATE FINISHED: 12/10/01
DRILLING METHOD: 4 1/4" HSA		TOTAL DEPTH: 14.5 fbgs	SCREEN INTERVAL: 9.0-14.0 fbgs
DRILLING EQUIPMENT: BK-81		DEPTH TO WATER: 8.5 ft	CASING: 2" dia. PVC
SAMPLING METHOD: 2" diameter stainless steel split spoons		LOGGED BY: MAC	
HAMMER WEIGHT: NA	DROP: 140 lb. Autohammer	RESPONSIBLE PROFESSIONAL: Richard H. Frappa	REG. NO.

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ foot			
					Surface Elevation: fmsl	Flush mount surface completion
1	1		5	0	fine sand with silt and gravel (angular) dry, loose fill coal pieces, loose, dry (black)	
2						
3	2		5	5	fine sand with silt, wood, coal, trace fine, subrounded gravel damp (fill)	
4						
5	3		4	4	Poorly graded SAND with SILT (SP-SM) 80% fine sand, 20% silt, trace fine subrounded gravel, damp to moist, firm, 1 FOR GLEY 4/10Y	
6						
7	4		10	0.2	Poorly graded GRAVEL 100% fine subangular gravel, moist, loose SILT with CLAY (SC) 50% silt, 50% med. plasticity fines, moist, hard, 10YR 4/1	
8					Poorly graded SAND with SILT (SP-SM) 80% fine sand, 20% silt, saturated, soft, 5YR 4/1	
9	5		14	3		
10						
11	6		12	8		
12						
13	7		5	7		
14						
15					EOB at 14.5 fbgs	
16						
17						
18						
19						
20						

WELL_OVMALL4.GPJ (202)

PROJECT: RG&E Property No. 1252 Pavilion, New York		Log of Well No. MW-3	
BORING LOCATION: Northwest corner of site		TOP OF RISER ELEVATION: 936.95 fmsl	DATUM: NA
DRILLING CONTRACTOR: Nothnagle		DATE STARTED: 12/10/01	DATE FINISHED: 12/10/01
DRILLING METHOD: 4 1/4" HSA		TOTAL DEPTH: 12.3 fbgs	SCREEN INTERVAL: 7-12 fbgs
DRILLING EQUIPMENT: BK-81		DEPTH TO WATER:	FIRST 6 ft
SAMPLING METHOD: 2" diameter stainless steel split spoons		LOGGED BY: MAC	
HAMMER WEIGHT: NA		RESPONSIBLE PROFESSIONAL: Richard H. Frappa	
DROP: 140 lb. Autohammer		REG. NO.	

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. Inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ foot			
					Surface Elevation: fmsl	
1	1		8	0.1	fine to medium sand with gravel, trace silt, trace to little coal (black) Poorly graded SAND with SILT (SP-SM) 70% fine sand, 30% silt, trace fine subrounded gravel, soft, damp to moist, 10YR 4/4	
2						
3	2		13	8		
4						
5	3		6	7	Poorly graded SAND with GRAVEL (SP) 90% med. sand, 10% fine subrounded gravel, loose, moist to saturated, 10YR 4/2	
6						
7	4		12	7		
8						
9	5		14	7	Poorly graded SAND with SILT (SP-SM) 80% fine to med. sand, 20% silt, soft, wet, 10YR 4/1	
10						
11	6		10	5		
12						
13					EOB at 12.5 fbgs	
14						
15						
16						
17						
18						
19						
20						

PROJECT: RG&E Property No. 1252 Pavilion, New York		Log of Well No. MW-4	
BORING LOCATION: Western edge of site		TOP OF RISER ELEVATION: 935.55 fmsl	DATUM: NA
DRILLING CONTRACTOR: Nothnagle		DATE STARTED: 12/11/01	DATE FINISHED: 12/11/01
DRILLING METHOD: 4 1/4" HSA		TOTAL DEPTH: 12.2 fbgs	SCREEN INTERVAL: 4-12 fbgs
DRILLING EQUIPMENT: BK-81		DEPTH TO WATER: 4 ft	COMPL. CASING: 2" dia. PVC
SAMPLING METHOD: 4' stainless steel barrel with acetate sleeves		LOGGED BY: MAC	
HAMMER WEIGHT: NA	DROP: 140 lb. Autohammer	RESPONSIBLE PROFESSIONAL: Richard H. Frappa	REG. NO.

DEPTH (feet)	SAMPLES			OVM (ppm)	DESCRIPTION NAME (USCS Symbol): color, moist, % by weight, plast., structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ foot			
					Surface Elevation: fmsl	Flush mount surface completion
1					fine sand with silt, trace angular gravel, trace clinker, grading to fine sand with silt, trace gravel, moist, soft to loose (fill).	
2	1		NA	2		cement/ bentonite grout
3						3/8" bentonite pellets
4						
5					Poorly graded SAND with SILT (SP-SM) 60% fine sand, 40% silt, firm, saturated at 4.0 fbgs, 2.5Y 4/2	2" diameter PVC riser
6	2		NA	0.1		#00N filter sand
7					Poorly graded SAND with SILT and GRAVEL (SP-SM) 50% med. sand, 30% silt, 20% fine subrounded gravel, loose, saturated, 2.5Y 4/1	
8						8.0' PVC well screen, 0.010 slot
9					SILT with CLAY (SC) 60% silt, 40% med. plasticity fines, moist, firm, 2.5Y 5/2	
10	3		NA	0		
11					Poorly graded SAND with SILT (SP-SM) 80% very fine sand, 20% silt, soft to firm, saturated, 2.5Y 5/2.	
12						PVC endcap
13					EOB at 12.2 fbgs	
14						
15						
16						
17						
18						
19						
20						

WELL_OVM ALL4.GPJ (2/02)

APPENDIX B

Laboratory Analytical Data

TEST PIT ANALYTICAL RESULTS

PARADIGM

ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: **Geomatrix Consultants**

Lab Project No. 01-1539

Lab Sample No. 5711

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 06/27/01

Field Location: TP-11

Date Received: 06/28/01

Field ID No.: N/A

Date Analyzed: 07/09/01

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 4,930
Acenaphthene	ND< 4,930
Fluorene	ND< 4,930
Fluoranthene	ND< 4,930
Anthracene	ND< 4,930
Phenanthrene	ND< 4,930
Benzo (a) anthracene	ND< 4,930
Chrysene	ND< 4,930
Pyrene	ND< 4,930
Benzo (b) fluoranthene	ND< 4,930
Benzo (k) fluoranthene	ND< 4,930
Benzo (g,h,i) perylene	ND< 4,930
Benzo (a) pyrene	ND< 4,930
Dibenz (a,h) anthracene	ND< 4,930
Indeno (1,2,3-cd) pyrene	ND< 4,930

Analytical Method: EPA 8270

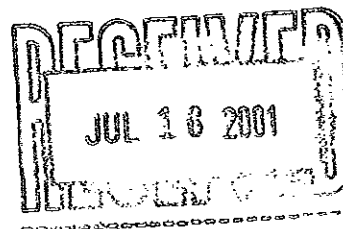
NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected
Elevated detection limits due to non-target hydrocarbons

Approved By: _____

Laboratory Director

011539S1.XLS



PARADIGM

ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: Geomatrix Consultants

Lab Project No. 01-1539

Lab Sample No. 5712

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 06/27/01

Field Location: TP-12

Date Received: 06/28/01

Field ID No.: N/A

Date Analyzed: 07/07/01

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 344
Acenaphthene	ND< 344
Fluorene	ND< 344
Fluoranthene	ND< 344
Anthracene	ND< 344
Phenanthrene	ND< 344
Benzo (a) anthracene	ND< 344
Chrysene	ND< 344
Pyrene	ND< 344
Benzo (b) fluoranthene	ND< 344
Benzo (k) fluoranthene	ND< 344
Benzo (g,h,i) perylene	ND< 344
Benzo (a) pyrene	ND< 344
Dibenz (a,h) anthracene	ND< 344
Indeno (1,2,3-cd) pyrene	685

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____

Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 01-1539

Client Job Site: N/A

Lab Sample No.: 5711

Client Job No.: 7250

Sample Type: Soil

Field Location: TP-11

Date Sampled: 06/27/01

Field ID No.: N/A

Date Received: 06/28/01

Date Analyzed: 06/29/01

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	ND< 80.2
Benzene	ND< 80.2
Toluene	ND< 80.2
Ethylbenzene	ND< 80.2
m,p-Xylene	ND< 80.2
o-Xylene	ND< 80.2
Isopropylbenzene	ND< 80.2
n-Propylbenzene	ND< 80.2
1,3,5-Trimethylbenzene	277
tert-Butylbenzene	ND< 80.2
1,2,4-Trimethylbenzene	506
sec-Butylbenzene	ND< 80.2
p-Isopropyltoluene	ND< 80.2
n-Butylbenzene	ND< 80.2
Naphthalene	ND< 401

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: 

Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 01-1539

Client Job Site: N/A

Lab Sample No.: 5712

Client Job No.: 7250

Sample Type: Soil

Field Location: TP-12

Date Sampled: 06/27/01

Field ID No.: N/A

Date Received: 06/28/01

Date Analyzed: 06/29/01

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	ND< 10.7
Benzene	ND< 10.7
Toluene	ND< 10.7
Ethylbenzene	ND< 10.7
m,p-Xylene	ND< 10.7
o-Xylene	ND< 10.7
Isopropylbenzene	ND< 10.7
n-Propylbenzene	ND< 10.7
1,3,5-Trimethylbenzene	ND< 10.7
tert-Butylbenzene	ND< 10.7
1,2,4-Trimethylbenzene	ND< 10.7
sec-Butylbenzene	ND< 10.7
p-Isopropyltoluene	ND< 10.7
n-Butylbenzene	ND< 10.7
Naphthalene	ND< 53.7

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: 

Laboratory Director



179 Lake Avenue, Rochester, NY 14608 716-647-2530 FAX 716-647-3311

Client: Geomatrix Consultants

Lab Project No.: 01-1539

Client Job Site: N/A

Client Job No.: 7250

Sample Type: Soil
Analytical Method: EPA 504.1
Date Sampled: 06/26/2001
Date Received: 06/28/2001
Date Analyzed: 07/02/2001

Lab Sample ID.	Client Sample ID.	Field Location	Total Cyanide (mg/kg)
5707	N/A	TP-3	2.0
5708	N/A	TP-5	2.2
5709	N/A	TP-9	7.2
5710	N/A	TP-10	2.3
5711	N/A	TP-11	ND<1
5713	N/A	TP-14	1.7

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By: _____

Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: Geomatrix Consultants

Lab Project No.: 01-1539

Lab Sample No.: 5707

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 06/26/2001

Field Location: TP-3

Date Received: 06/28/2001

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	07/02/2001	SW846 6010	2.28
Barium	07/02/2001	SW846 6010	61.1
Cadmium	07/02/2001	SW846 6010	3.08
Chromium	07/02/2001	SW846 6010	8.65
Lead	07/02/2001	SW846 6010	46.6
Mercury	07/09/2001	SW846 7471	<0.111
Selenium	07/02/2001	SW846 6010	2.90
Silver	07/02/2001	SW846 6010	1.21

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: Geomatrix Consultants

Lab Project No.: 01-1539

Lab Sample No.: 5708

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 06/26/2001

Field Location: TP-5

Date Received: 06/28/2001

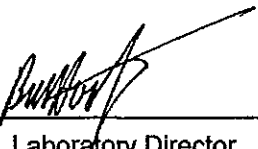
Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	07/02/2001	SW846 6010	5.10
Barium	07/02/2001	SW846 6010	38.5
Cadmium	07/02/2001	SW846 6010	1.02
Chromium	07/02/2001	SW846 6010	14.2
Lead	07/02/2001	SW846 6010	17.8
Mercury	07/09/2001	SW846 7471	<0.0977
Selenium	07/02/2001	SW846 6010	1.33
Silver	07/02/2001	SW846 6010	<1.34

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: Geomatrix Consultants

Lab Project No.: 01-1539

Client Job Site: N/A

Lab Sample No.: 5709

Client Job No.: 7250

Sample Type: Soil

Field Location: TP-9

Date Sampled: 06/27/2001

Field ID No.: N/A

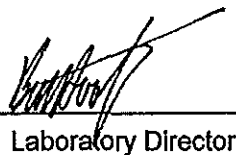
Date Received: 06/28/2001

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	07/02/2001	SW846 6010	18.8
Barium	07/02/2001	SW846 6010	147
Cadmium	07/02/2001	SW846 6010	10.8
Chromium	07/02/2001	SW846 6010	54.5
Lead	07/02/2001	SW846 6010	1275
Mercury	07/09/2001	SW846 7471	0.248
Selenium	07/02/2001	SW846 6010	1.82
Silver	07/02/2001	SW846 6010	1.14

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: Geomatrix Consultants

Lab Project No.: 01-1539

Lab Sample No.: 5710

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 06/27/2001

Field Location: TP-10

Date Received: 06/28/2001

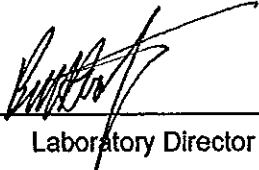
Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	07/02/2001	SW846 6010	19.0
Barium	07/02/2001	SW846 6010	82.1
Cadmium	07/02/2001	SW846 6010	1.83
Chromium	07/02/2001	SW846 6010	8.97
Lead	07/02/2001	SW846 6010	201
Mercury	07/09/2001	SW846 7471	<0.106
Selenium	07/02/2001	SW846 6010	1.72
Silver	07/02/2001	SW846 6010	<0.940

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: Geomatrix Consultants

Lab Project No.: 01-1539

Lab Sample No.: 5711

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 06/27/2001

Field Location: TP-11

Date Received: 06/28/2001

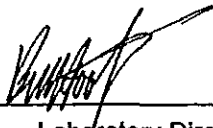
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Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	07/02/2001	SW846 6010	8.31
Barium	07/02/2001	SW846 6010	48.5
Cadmium	07/02/2001	SW846 6010	2.73
Chromium	07/02/2001	SW846 6010	9.19
Lead	07/02/2001	SW846 6010	75.5
Mercury	07/09/2001	SW846 7471	<0.141
Selenium	07/02/2001	SW846 6010	3.00
Silver	07/02/2001	SW846 6010	<1.71

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Client: **Geomatrix Consultants**

Lab Project No. 01-1539

Lab Sample No. 5713

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 06/27/2001

Field Location: TP-14

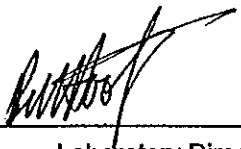
Date Received: 06/28/2001

Field ID No.: N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Aluminum	07/02/01	SW846 6010	5509
Antimony	07/02/01	SW846 6010	<4.41
Arsenic	07/02/01	SW846 6010	4.55
Barium	07/02/01	SW846 6010	40.3
Beryllium	07/02/01	SW846 6010	<0.368
Cadmium	07/02/01	SW846 6010	2.94
Calcium	07/02/01	SW846 6010	84268
Chromium	07/02/01	SW846 6010	14.0
Cobalt	07/02/01	SW846 6010	6.96
Copper	07/02/01	SW846 6010	130
Iron	07/02/01	SW846 6010	45836
Lead	07/02/01	SW846 6010	79.0
Magnesium	07/02/01	SW846 6010	23408
Manganese	07/02/01	SW846 6010	626
Mercury	07/09/01	SW846 7471	<0.0777
Nickel	07/02/01	SW846 6010	33.3
Potassium	07/02/01	SW846 6010	1089
Selenium	07/02/01	SW846 6010	1.19
Silver	07/02/01	SW846 6010	1.44
Sodium	07/02/01	SW846 6010	168
Thallium	07/02/01	SW846 6010	<0.441
Vanadium	07/02/01	SW846 6010	20.69
Zinc	07/02/01	SW846 6010	229

ELAP ID No.:10958

Comments:

Approved By: 

Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Laboratory Analysis For Petroleum Hydrocarbons in Soil/Solid Matrix

Client:	<u>Geomatrix</u>	Lab Project No.:	01-1539R
Client Job Site:	N/A	Lab Sample No.:	5711R
Client Job No.:	7250	Sample Type:	Soil
Field Location:	TP-11	Date Sampled:	06/27/01
Field ID No:	N/A	Date Received:	07/10/01
		Date Analyzed:	07/11/01

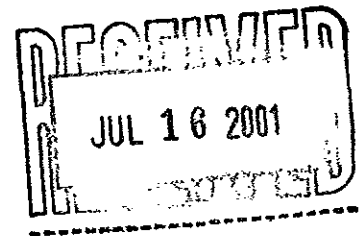
Petroleum Hydrocarbon	Result (ug/Kg)	Reporting Limit (ug/Kg)
Heavy Weight PHC as Lube Oil	21,200,000	62,100

N.Y.D.O.H. Analytical Method: 310.13 modified ELAP ID No.: 10958

Comments: BDL denotes Below Detection Limit

Approved By: _____

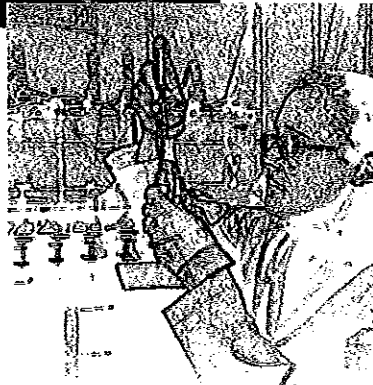
Laboratory Director



Laboratory Report

RG&E Pavilion

SDG: GB010628



Report To:

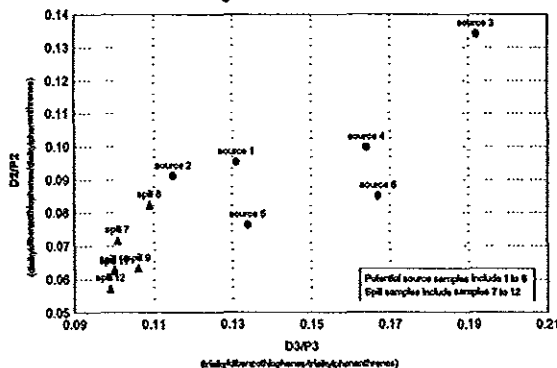
Geomatrix Consultants, Inc.
338 Harris Hill Road, Suite 201
Williamsville, NY 14221

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

July 19, 2001

Figure 1. Double Ratio Plot



Identifying and allocating sources of pollutants in complex environments.

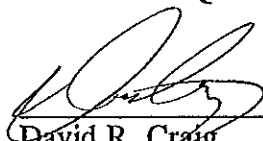
Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

Phone: 617-923-4662
Fax: 617-923-4610
e-Mail: metaenv@aol.com

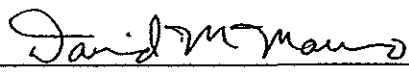
Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Director and Quality Assurance Officer, as verified by the following signatures.



David R. Craig
Laboratory Director, META Environmental, Inc.

7/19/01
Date



David M. Mauro
Quality Assurance Officer, META Environmental, Inc.

7/19/01
Date

Sample Delivery Group Narrative

Project: RG&E Pavilion

Client: Geomatrix Consultants, Inc.
338 Harris Hill Road, Suite 201
Williamsville, NY 14221

Report Contact: Mr. Mike Cummings

Date of Receipt: 6/28/01

Sample Summary:

The samples received for this project are summarized in the attached sample login forms.

META Project Number: G12001-60

Chain of Custody

Samples were received in good condition. The internal temperatures of the shipment containers were as follows:

Samples received 6/28/2001 9.2°C

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized 1 month after the release of this data report. Sample disposal will be documented.

Methods

Approximately two grams of each soil sample was extracted with dichloromethane (DCM) (EPA 3570 Draft). The extract was spiked with internal standard and analyzed by GC/FID (EPA 8100 mod.).

Results

Sample results were presented in summary forms (CLP Form 1 equivalent) which follow this narrative.

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." No value was reported above the calibration range. Undetected analytes were flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

The sample was extracted within holding times. All samples and extracts were stored at 4°C ± 2°C prior to extraction and analysis. All extracts were analyzed within 40 days of sample preparation.

Blanks

The soil samples were associated with a blank containing low levels of target analytes. These analytes in the affected samples were flagged with the letter "B". Any samples with concentrations of any of these analytes less than 5 times greater than that in the blank should be reviewed for positive bias.

Laboratory Control Samples (LCSs)

An LCS, or blank spike, was prepared with each batch of samples. Recoveries of the target analytes were within QC limits (50-120%).

Matrix Spike Sample

One matrix spike was prepared with the samples. Recoveries of the target analytes were within QC limits (50-120%).

Duplicate Sample

One sample was prepared in duplicate with the samples. Analytical precision was within QC limits (<50% D) with the exception of n-Butylbenzene, Anthracene, and Fluoranthene.

Internal Standards

Internal standards were recovered within acceptable QC limits (85%-115%) relative to the continuing calibration standard.

Interferences

Samples TP-2, TP-2B, TP-3, TP-9, TP-10, and TP-14 appeared to contain one or more type of petroleum products in addition to low levels of PAHs. Petroleum Hydrocarbons can interfere with the GC/FID quantitation of some PAHs at low levels. The data were carefully reviewed and only those PAHs for which no interferences were apparent have been reported.

Appendix A

Chains of Custody

META ENVIRONMENTAL SAMPLE RECEIPT

Lab ID	Field ID	Matrix	Analysis	Date Sampled	Date Received	Client/Project	Container/Storage
GB010628-01	TP-2	Soil	2508/4007	06/26/01	06/28/01	G12001-60	4oz. jar
GB010628-02	TP-2B	Soil	2508/4007	06/26/01	06/28/01	G12001-60	4oz. jar
GB010628-03	TP-3	Soil	2508/4007	06/26/01	06/28/01	G12001-60	4oz. jar
GB010628-04	TP-5	Soil	2508/4007	06/26/01	06/28/01	G12001-60	4oz. jar
GB010628-05	TP-9	Soil	2508/4007	06/27/01	06/28/01	G12001-60	4oz. jar
GB010628-06	TP-10	Soil	2508/4007	06/27/01	06/28/01	G12001-60	4oz. jar
GB010628-07	TP-14	Soil	2508/4007	06/27/01	06/28/01	G12001-60	4oz. jar

D. usry
6/28/01

Chain-of-Custody Record

Date: 6-26-01

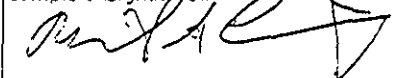
Page 1 of 1

Project No. 7250

ANALYSES

REMARKS

Samplers (Signature)



Additional Comments

Date	Time	Sample Number
6-26-01	11:30	TP-2
6-26-01	12:15	TP-2B
6-26-01	13:40	TP-3
6-26-01	15:00	TP-5
6-27-01	8:45	TP-9
6-27-01	9:10	TP-10
6-27-01	10:00	TP-11
6-27-01	12:10	TP-14

Soil (S) Water (W)
Vapor (V) or Other

EPA Method 8010

EPA Method 8010

EPA Method 8210

EPA Method 8210

TPH by

TPH by

EPA Method 8020B x

TPH

McHaul (3570)

(GTEX/PAHs)

Acidified

No. of containers

GB010628-01

-02

-03

-04

-05

-06

-07

RF

Turnaround time:

STANDARD

Results to

Rick Fragon

Total No. of containers:

7

Relinquished by (signature):

Date:

Relinquished by (signature):

Date:

Relinquished by (signature):

Date:

Method of shipment:

FED Ex

Printed name:

MICHAEL A. CUMMINGS

Time:

14:20

Printed name:

Time:

Printed name:

Time:

Laboratory comments and Log No.:

Please adhere to analyses
listed on Chain of Custody,
not those listed on
individual samples.

Company:

Geomatrix Consultants

Company

Company:

Received (signature):

Date:

Received by (signature):

Date:

Received by (signature):

Date:

Printed Name

DINSKY BERHANU

Time

9:30am

Printed Name

Time:

Printed Name:

Time:

Company:

META Environmental

Company

Company:



Geomatrix Consultants

 338 Harris Hill Road, Suite 201
 Williamsville, New York 14221
 (716) 565-0624

road @ 9:30am

Appendix B

Chemical Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TP-2

Client: Geomatrix Consultants
 Project: RG&E Pavilion

Lab ID: GB010628-01
 File ID: 03JULR23.D

Date Sampled: 6/26/01
 Date Received: 6/28/01
 Date Prepared: 7/2/01
 Date Cleanup:
 Date Analyzed: 4 Jul 2001 3:05 pm
 Instrument: GC_3
 Operator: DB

Preparation Method: EPA 3570 Draft
 Cleanup Method(s):
 Analysis Method: GC/FID (EPA8100 mod.)
 Matrix: Soil
 Preservation: None
 Decanted: No

Sample Size: 2.171 g
 %Solid: 64%
 Extract Volume: 2 mL
 Prep DF: 1
 Analysis DF: 1
 Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.94	B	0.14	0.07	
Toluene	0.81	B	0.14	0.07	
Ethylbenzene	0.76	B	0.14	0.07	
m/p-Xylene	1.03	B	0.14	0.07	
Styrene	0.65		0.14	0.07	
o-Xylene	0.96		0.14	0.07	
Isopropyltoluene	0.70		0.14	0.07	
Propylbenzene	0.72		0.14	0.07	
1,3,5-Trimethylbenzene	0.68		0.14	0.07	
1,2,4-Trimethylbenzene	1.47		0.29	0.14	
sec-Butylbenzene	0.66		0.14	0.07	
p-Isopropyltoluene	0.74		0.14	0.07	
n-Butylbenzene	0.74		0.14	0.07	
Naphthalene	0.94		0.14	0.07	
2-Methylnaphthalene	1.08		0.14	0.07	
1-Methylnaphthalene	1.13		0.14	0.07	
Acenaphthylene	1.11		0.14	0.07	
Acenaphthene	1.04		0.14	0.07	
Dibenzofuran	1.02		0.14	0.07	
Fluorene	0.79		0.14	0.07	
Phenanthrene	1.05	B	0.14	0.07	
Anthracene	0.95		0.14	0.07	
Fluoranthene	0.76		0.14	0.07	
Pyrene	0.82		0.14	0.07	
Benz(a)anthracene	0.85		0.14	0.07	
Chrysene	1.13		0.14	0.07	
Benzo(b)fluoranthene	0.91		0.14	0.07	
Benzo(k)fluoranthene	2.49		0.14	0.07	
Benzo(a)pyrene	0.93		0.14	0.07	
Indeno(123-cd)pyrene	1.45		0.14	0.07	
Dibenz(a,h)anthracene	0.63		0.14	0.07	
Benzo(g,h,i)perylene	1.11		0.14	0.07	
Total MAH	5.15				
Total PAH	19.1				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	69%		50%	150%	
2-Fluorobiphenyl (SS2)	78%		50%	120%	
5-alpha-Androstane (SS3)	76%		50%	120%	

Qualifiers:

B Analyte detected in the blank
 D Analyte reported from a diluted extract
 U Undetected above the detection limit
 J Estimated value detected between the reporting and detection limits
 E Estimated value detected above calibration range
 I Concentration/Peak ID uncertain due to potential interference
 RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
 EDL Estimated detection limit is 50% of the RL
 Total MAH does not include C3- or C4-benzenes
 Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TP-2B

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: GB010628-02
File ID: 03JULR24.D

Date Sampled: 6/26/01
Date Received: 6/28/01
Date Prepared: 7/2/01
Date Cleanup:
Date Analyzed: 4 Jul 2001 4:13 pm
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):
Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.06 g
%Solid: 69%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.52	B	0.14	0.07	
Toluene	0.29	B	0.14	0.07	
Ethylbenzene	0.17	B	0.14	0.07	
m/p-Xylene	0.52	B	0.14	0.07	
Styrene	0.13	J	0.14	0.07	
o-Xylene	0.21		0.14	0.07	
Isopropyltoluene	0.09	J	0.14	0.07	
Propylbenzene	0.07	J	0.14	0.07	
1,3,5-Trimethylbenzene	0.10	J	0.14	0.07	
1,2,4-Trimethylbenzene	0.36		0.28	0.14	
sec-Butylbenzene		U	0.14	0.07	
p-Isopropyltoluene	0.14		0.14	0.07	
n-Butylbenzene	0.14		0.14	0.07	
Naphthalene	0.69		0.14	0.07	
2-Methylnaphthalene	0.44		0.14	0.07	
1-Methylnaphthalene	0.44		0.14	0.07	
Acenaphthylene	1.12		0.14	0.07	
Acenaphthene	0.57		0.14	0.07	
Dibenzofuran	0.29		0.14	0.07	
Fluorene	0.21		0.14	0.07	
Phenanthrene	0.71	B	0.14	0.07	
Anthracene	0.35		0.14	0.07	
Fluoranthene	1.31		0.14	0.07	
Pyrene	1.53		0.14	0.07	
Benz(a)anthracene	0.84		0.14	0.07	
Chrysene	1.00		0.14	0.07	
Benzo(b)fluoranthene	1.01		0.14	0.07	
Benzo(k)fluoranthene	1.70		0.14	0.07	
Benzo(a)pyrene	1.20		0.14	0.07	
Indeno(123-cd)pyrene	1.41		0.14	0.07	
Dibenz(a,h)anthracene	0.18		0.14	0.07	
Benzo(g,h,i)perylene	1.98		0.14	0.07	
Total MAH	1.82				
Total PAH	16.7				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	74%		50%	150%	
2-Fluorobiphenyl (SS2)	88%		50%	120%	
5-alpha-Androstane (SS3)	87%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TP-3

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: GB010628-03
File ID: 03JULR25.D

Date Sampled: 6/26/01
Date Received: 6/28/01
Date Prepared: 7/2/01
Date Cleanup:
Date Analyzed: 4 Jul 2001 5:21 pm
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):

Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.051 g
%Solid: 74%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.53	B	0.13	0.07	
Toluene	0.22	B	0.13	0.07	
Ethylbenzene	0.12	JB	0.13	0.07	
m/p-Xylene	0.40	B	0.13	0.07	
Styrene		U	0.13	0.07	
o-Xylene	0.13	J	0.13	0.07	
Isopropyltoluene		U	0.13	0.07	
Propylbenzene		U	0.13	0.07	
1,3,5-Trimethylbenzene	0.07	J	0.13	0.07	
1,2,4-Trimethylbenzene	0.22		0.26	0.13	
sec-Butylbenzene		U	0.13	0.07	
p-Isopropyltoluene		U	0.13	0.07	
n-Butylbenzene		U	0.13	0.07	
Naphthalene	0.55		0.13	0.07	
2-Methylnaphthalene	0.49		0.13	0.07	
1-Methylnaphthalene	0.35		0.13	0.07	
Acenaphthylene	0.39		0.13	0.07	
Acenaphthene	0.16		0.13	0.07	
Dibenzofuran		I	0.13	0.07	
Fluorene	0.24		0.13	0.07	
Phenanthrene	0.40	B	0.13	0.07	
Anthracene	0.27		0.13	0.07	
Fluoranthene		I	0.13	0.07	
Pyrene	0.33		0.13	0.07	
Benz(a)anthracene		I	0.13	0.07	
Chrysene		I	0.13	0.07	
Benzo(b)fluoranthene	0.53		0.13	0.07	
Benzo(k)fluoranthene	0.40		0.13	0.07	
Benzo(a)pyrene	0.70		0.13	0.07	
Indeno(123-cd)pyrene	0.39		0.13	0.07	
Dibenz(a,h)anthracene	0.09	J	0.13	0.07	
Benzo(g,h,i)perylene	1.17		0.13	0.07	
Total MAH	1.39				
Total PAH	7.83				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	84%		50%	150%	
2-Fluorobiphenyl (SS2)	93%		50%	120%	
5-alpha-Androstane (SS3)	90%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics META Environmental, Inc.

Field ID: TP-5

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: GB010628-04
File ID: 03JULR26.D

Date Sampled: 6/26/01
Date Received: 6/28/01
Date Prepared: 7/2/01
Date Cleanup:
Date Analyzed: 4 Jul 2001 6:31 pm
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):

Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 1.974 g
%Solid: 33%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	1.58	B	0.31	0.15	
Toluene	0.92	B	0.31	0.15	
Ethylbenzene	0.62	B	0.31	0.15	
m/p-Xylene	1.52	B	0.31	0.15	
Styrene		U	0.31	0.15	
o-Xylene	0.54		0.31	0.15	
Isopropyltoluene	0.15	J	0.31	0.15	
Propylbenzene	0.16	J	0.31	0.15	
1,3,5-Trimethylbenzene	0.22	J	0.31	0.15	
1,2,4-Trimethylbenzene	0.51		0.61	0.31	
sec-Butylbenzene		U	0.31	0.15	
p-Isopropyltoluene	0.17	J	0.31	0.15	
n-Butylbenzene	0.18	J	0.31	0.15	
Naphthalene	0.60		0.31	0.15	
2-Methylnaphthalene	0.21	J	0.31	0.15	
1-Methylnaphthalene	0.23	J	0.31	0.15	
Acenaphthylene		I	0.31	0.15	
Acenaphthene		I	0.31	0.15	
Dibenzofuran	0.38		0.31	0.15	
Fluorene	0.44		0.31	0.15	
Phenanthrene	0.68	B	0.31	0.15	
Anthracene	0.25	J	0.31	0.15	
Fluoranthene	1.09		0.31	0.15	
Pyrene	1.13		0.31	0.15	
Benz(a)anthracene	0.85		0.31	0.15	
Chrysene	1.06		0.31	0.15	
Benzo(b)fluoranthene	0.84		0.31	0.15	
Benzo(k)fluoranthene	2.29		0.31	0.15	
Benzo(a)pyrene	0.91		0.31	0.15	
Indeno(123-cd)pyrene	2.12		0.31	0.15	
Dibenz(a,h)anthracene	0.30	J	0.31	0.15	
Benzo(g,h,i)perylene	2.85		0.31	0.15	
Total MAH	5.19				
Total PAH	18.6				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	71%		50%	150%	
2-Fluorobiphenyl (SS2)	79%		50%	120%	
5-alpha-Androstane (SS3)	77%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TP-9

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: GB010628-05
File ID: 03JULR27.D

Date Sampled: 6/27/01
Date Received: 6/28/01
Date Prepared: 7/2/01
Date Cleanup:
Date Analyzed: 4 Jul 2001 7:39 pm
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):
Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.084 g
%Solid: 71%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.47	B	0.13	0.07	
Toluene	0.20	B	0.13	0.07	
Ethylbenzene	0.15	B	0.13	0.07	
m/p-Xylene	0.41	B	0.13	0.07	
Styrene		U	0.13	0.07	
o-Xylene	0.11	J	0.13	0.07	
Isopropyltoluene	0.07	J	0.13	0.07	
Propylbenzene	0.07	J	0.13	0.07	
1,3,5-Trimethylbenzene	0.08	J	0.13	0.07	
1,2,4-Trimethylbenzene	0.30		0.27	0.13	
sec-Butylbenzene		U	0.13	0.07	
p-Isopropyltoluene	0.08	J	0.13	0.07	
n-Butylbenzene	0.20		0.13	0.07	
Naphthalene	0.87		0.13	0.07	
2-Methylnaphthalene	0.41		0.13	0.07	
1-Methylnaphthalene	0.28		0.13	0.07	
Acenaphthylene	0.34		0.13	0.07	
Acenaphthene		I	0.13	0.07	
Dibenzofuran		I	0.13	0.07	
Fluorene		I	0.13	0.07	
Phenanthrene	0.72	B	0.13	0.07	
Anthracene	0.15		0.13	0.07	
Fluoranthene		I	0.13	0.07	
Pyrene		I	0.13	0.07	
Benz(a)anthracene		U	0.13	0.07	
Chrysene		U	0.13	0.07	
Benzo(b)fluoranthene		U	0.13	0.07	
Benzo(k)fluoranthene		U	0.13	0.07	
Benzo(a)pyrene		U	0.13	0.07	
Indeno(123-cd)pyrene		U	0.13	0.07	
Dibenz(a,h)anthracene		U	0.13	0.07	
Benzo(g,h,i)perylene		U	0.13	0.07	
Total MAH	1.34				
Total PAH	4.73				
Sumogates	%R		Min	Max	
Fluorobenzene (SS1)	85%		50%	150%	
2-Fluorobiphenyl (SS2)	92%		50%	120%	
5-alpha-Androstane (SS3)	90%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics META Environmental, Inc.

Field ID: TP-9

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: GB010628-05Dup
File ID: 03JULR28.D

Date Sampled: 6/27/01
Date Received: 6/28/01
Date Prepared: 7/2/01
Date Cleanup:
Date Analyzed: 4 Jul 2001 8:49 pm
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):

Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.042 g
%Solid: 71%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.42	B	0.14	0.07	23.8%
Toluene	0.22	B	0.14	0.07	18.2%
Ethylbenzene	0.15	B	0.14	0.07	0.0%
m/p-Xylene	0.40	B	0.14	0.07	5.0%
Styrene		U	0.14	0.07	
o-Xylene	0.09	J	0.14	0.07	44.4%
Isopropyltoluene		U	0.14	0.07	
Propylbenzene	0.08	J	0.14	0.07	25.0%
1,3,5-Trimethylbenzene	0.10	J	0.14	0.07	40.0%
1,2,4-Trimethylbenzene	0.31		0.27	0.14	6.5%
sec-Butylbenzene		U	0.14	0.07	
p-Isopropyltoluene	0.08	J	0.14	0.07	0.0%
n-Butylbenzene	0.14		0.14	0.07	85.7%
Naphthalene	0.87		0.14	0.07	0.0%
2-Methylnaphthalene	0.53		0.14	0.07	45.3%
1-Methylnaphthalene	0.27		0.14	0.07	7.4%
Acenaphthylene	0.43		0.14	0.07	41.9%
Acenaphthene		I	0.14	0.07	
Dibenzofuran		I	0.14	0.07	
Fluorene		I	0.14	0.07	
Phenanthrene	0.67	B	0.14	0.07	14.9%
Anthracene	0.22		0.14	0.07	63.6%
Fluoranthene		I	0.14	0.07	
Pyrene		I	0.14	0.07	
Benz(a)anthracene		U	0.14	0.07	
Chrysene		U	0.14	0.07	
Benzo(b)fluoranthene		U	0.14	0.07	
Benzo(k)fluoranthene		U	0.14	0.07	
Benzo(a)pyrene		U	0.14	0.07	
Indeno(123-cd)pyrene	0.76		0.14	0.07	
Dibenz(a,h)anthracene		U	0.14	0.07	
Benzo(g,h,i)perylene	0.19		0.14	0.07	
Total MAH	1.28				
Total PAH	5.66				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	79%		50%	150%	
2-Fluorobiphenyl (SS2)	90%		50%	120%	
5-alpha-Androstane (SS3)	87%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TP-10

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: GB010628-06
File ID: 03JULR29.D

Date Sampled: 6/27/01
Date Received: 6/28/01
Date Prepared: 7/2/01
Date Cleanup:
Date Analyzed: 4 Jul 2001 9:56 pm
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):

Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.153 g
%Solid: 83%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.49	B	0.11	0.06	
Toluene	0.25	B	0.11	0.06	
Ethylbenzene	0.25	B	0.11	0.06	
m/p-Xylene	0.69	B	0.11	0.06	
Styrene	0.11	J	0.11	0.06	
o-Xylene	0.37		0.11	0.06	
Isopropyltoluene	0.14		0.11	0.06	
Propylbenzene	0.09	J	0.11	0.06	
1,3,5-Trimethylbenzene	0.21		0.11	0.06	
1,2,4-Trimethylbenzene	0.85		0.22	0.11	
sec-Butylbenzene	0.11	J	0.11	0.06	
p-Isopropyltoluene	0.31		0.11	0.06	
n-Butylbenzene	0.45		0.11	0.06	
Naphthalene	1.59		0.11	0.06	
2-Methylnaphthalene	1.09		0.11	0.06	
1-Methylnaphthalene	1.13		0.11	0.06	
Acenaphthylene		I	0.11	0.06	
Acenaphthene		I	0.11	0.06	
Dibenzofuran		I	0.11	0.06	
Fluorene	0.52		0.11	0.06	
Phenanthrene	1.68	B	0.11	0.06	
Anthracene	0.35		0.11	0.06	
Fluoranthene	2.32		0.11	0.06	
Pyrene	2.47		0.11	0.06	
Benz(a)anthracene	1.43		0.11	0.06	
Chrysene	2.60		0.11	0.06	
Benzo(b)fluoranthene	1.24		0.11	0.06	
Benzo(k)fluoranthene	1.44		0.11	0.06	
Benzo(a)pyrene	1.17		0.11	0.06	
Indeno(123-cd)pyrene	0.83		0.11	0.06	
Dibenz(a,h)anthracene	0.24		0.11	0.06	
Benzo(g,h,i)perylene	1.12		0.11	0.06	
Total MAH	2.17				
Total PAH	22.1				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	75%		50%	150%	
2-Fluorobiphenyl (SS2)	82%		50%	120%	
5-alpha-Androstane (SS3)	83%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics

META Environmental, Inc.

Field ID: TP-14

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: GB010628-07
File ID: 03JULR30.D

Date Sampled: 6/27/01
Date Received: 6/28/01
Date Prepared: 7/2/01
Date Cleanup:
Date Analyzed: 4 Jul 2001 11:03 pm
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):

Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.324 g
%Soid: 86%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.23	B	0.10	0.05	
Toluene	0.12	B	0.10	0.05	
Ethylbenzene	0.09	JB	0.10	0.05	
m/p-Xylene	0.25	B	0.10	0.05	
Styrene		U	0.10	0.05	
o-Xylene	0.07	J	0.10	0.05	
Isopropyltoluene		U	0.10	0.05	
Propylbenzene		U	0.10	0.05	
1,3,5-Trimethylbenzene		U	0.10	0.05	
1,2,4-Trimethylbenzene	0.10		0.20	0.10	
sec-Butylbenzene		U	0.10	0.05	
p-Isopropyltoluene		U	0.10	0.05	
n-Butylbenzene		U	0.10	0.05	
Naphthalene	0.12		0.10	0.05	
2-Methylnaphthalene		U	0.10	0.05	
1-Methylnaphthalene		U	0.10	0.05	
Acenaphthylene	0.10	J	0.10	0.05	
Acenaphthene		U	0.10	0.05	
Dibenzofuran		I	0.10	0.05	
Fluorene	0.11		0.10	0.05	
Phenanthrene		B,I	0.10	0.05	
Anthracene		I	0.10	0.05	
Fluoranthene	0.41		0.10	0.05	
Pyrene		I	0.10	0.05	
Benz(a)anthracene		I	0.10	0.05	
Chrysene		I	0.10	0.05	
Benzo(b)fluoranthene	0.25		0.10	0.05	
Benzo(k)fluoranthene	0.44		0.10	0.05	
Benzo(a)pyrene	0.32		0.10	0.05	
Indeno(123-cd)pyrene	0.32		0.10	0.05	
Dibenz(a,h)anthracene		U	0.10	0.05	
Benzo(g,h,i)perylene	0.46		0.10	0.05	
Total MAH	0.76				
Total PAH	3.97				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	77%		50%	150%	
2-Fluorobiphenyl (SS2)	83%		50%	120%	
5-alpha-Androstane (SS3)	80%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics

META Environmental, Inc.

Field ID: **Soil Blank**

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: GB010702-SB
File ID: 03JULR05.D

Date Sampled:
Date Received:
Date Prepared: 7/2/2001
Date Cleanup:
Date Analyzed: 3 Jul 2001 7:03 pm
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):
Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2 g
%Solid: 100%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.20		0.10	0.05	
Toluene	0.09	J	0.10	0.05	
Ethylbenzene	0.07	J	0.10	0.05	
m/p-Xylene	0.21		0.10	0.05	
Styrene		U	0.10	0.05	
o-Xylene		U	0.10	0.05	
Isopropyltoluene		U	0.10	0.05	
Propylbenzene		U	0.10	0.05	
1,3,5-Trimethylbenzene		U	0.10	0.05	
1,2,4-Trimethylbenzene		U	0.20	0.10	
sec-Butylbenzene		U	0.10	0.05	
p-Isopropyltoluene		U	0.10	0.05	
n-Butylbenzene		U	0.10	0.05	
Naphthalene		U	0.10	0.05	
2-Methylnaphthalene		U	0.10	0.05	
1-Methylnaphthalene		U	0.10	0.05	
Acenaphthylene		U	0.10	0.05	
Acenaphthene		U	0.10	0.05	
Dibenzofuran		U	0.10	0.05	
Fluorene		U	0.10	0.05	
Phenanthrene	0.05	J	0.10	0.05	
Anthracene		U	0.10	0.05	
Fluoranthene		U	0.10	0.05	
Pyrene		U	0.10	0.05	
Benz(a)anthracene		U	0.10	0.05	
Chrysene		U	0.10	0.05	
Benzo(b)fluoranthene		U	0.10	0.05	
Benzo(k)fluoranthene		U	0.10	0.05	
Benzo(a)pyrene		U	0.10	0.05	
Indeno(123-cd)pyrene		U	0.10	0.05	
Dibenz(a,h)anthracene		U	0.10	0.05	
Benzo(g,h,i)perylene		U	0.10	0.05	
Total MAH	0.57				
Total PAH	0.05				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	84%		50%	150%	
2-Fluorobiphenyl (SS2)	91%		50%	120%	
5-alpha-Androstane (SS3)	87%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Blank Spike

Client: Geomatrix Consultants
 Project: RG&E Pavilion

Lab ID: GB010702-SBS
 File ID: 03JULR06.D

Date Sampled:
 Date Received:
 Date Prepared: 7/2/2001
 Date Cleanup:
 Date Analyzed: 3 Jul 2001 8:10 pm
 Instrument: GC_3
 Operator: DB

Preparation Method: EPA 3570 Draft
 Cleanup Method(s):
 Analysis Method: GC/FID (EPA8100 mod.)
 Matrix: Soil
 Preservation: None
 Decanted: No

Sample Size: 2 g
 %Solid: 100%
 Extract Volume: 2 mL
 Prep DF: 1
 Analysis DF: 1
 Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	18.2	B	0.10	0.05	72.0%
Toluene	21.9	B	0.10	0.05	87.2%
Ethylbenzene	22.0	B	0.10	0.05	87.7%
m/p-Xylene	22.0	B	0.10	0.05	87.2%
Styrene	21.3		0.10	0.05	85.2%
o-Xylene	22.3		0.10	0.05	89.2%
Isopropyltoluene	21.9		0.10	0.05	87.6%
Propylbenzene	22.0		0.10	0.05	88.0%
1,3,5-Trimethylbenzene	21.7		0.10	0.05	86.8%
1,2,4-Trimethylbenzene	43.1		0.20	0.10	86.2%
sec-Butylbenzene	21.7		0.10	0.05	86.8%
p-Isopropyltoluene	21.8		0.10	0.05	87.2%
n-Butylbenzene	21.8		0.10	0.05	87.2%
Naphthalene	20.7		0.10	0.05	82.8%
2-Methylnaphthalene	20.3		0.10	0.05	81.2%
1-Methylnaphthalene	21.6		0.10	0.05	86.4%
Acenaphthylene	21.4		0.10	0.05	85.6%
Acenaphthene	21.2		0.10	0.05	84.8%
Dibenzofuran	21.3		0.10	0.05	85.2%
Fluorene	21.0		0.10	0.05	84.0%
Phenanthrene	20.8	B	0.10	0.05	83.0%
Anthracene	20.2		0.10	0.05	80.8%
Fluoranthene	20.9		0.10	0.05	83.6%
Pyrene	20.9		0.10	0.05	83.6%
Benz(a)anthracene	21.2		0.10	0.05	84.8%
Chrysene	22.0		0.10	0.05	88.0%
Benzo(b)fluoranthene	21.1		0.10	0.05	84.4%
Benzo(k)fluoranthene	21.8		0.10	0.05	87.2%
Benzo(a)pyrene	21.4		0.10	0.05	85.6%
Indeno(123-cd)pyrene	21.6		0.10	0.05	86.4%
Dibenz(a,h)anthracene	22.7		0.10	0.05	90.8%
Benzo(g,h,i)perylene	22.4		0.10	0.05	89.6%
Total MAH	128				
Total PAH	383				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	78%		50%	150%	
2-Fluorobiphenyl (SS2)	87%		50%	120%	
5-alpha-Androstane (SS3)	83%		50%	120%	

Qualifiers:

B Analyte detected in the blank
 D Analyte reported from a diluted extract
 U Undetected above the detection limit
 J Estimated value detected between the reporting and detection limits
 E Estimated value detected above calibration range
 I Concentration/Peak ID uncertain due to potential interference
 RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
 EDL Estimated detection limit is 50% of the RL
 Total MAH does not include C3- or C4-benzenes
 Total PAH does not include Dibenzofuran

Analytical Results for Volatile and Semivolatile Organics META Environmental, Inc.

for a comparison
of matrix spike
Native is another clients
sampled used for this batch

Field ID: Native

Client: Geomatrix Consultants
Project: RG&E Pavilion

Lab ID: MT010629-04
File ID: 03JULR10.D

Date Sampled: 6/26/01
Date Received: 6/28/01
Date Prepared: 7/2/01
Date Cleanup: 7/2/01
Date Analyzed: 4 Jul 2001 12:35 am
Instrument: GC_3
Operator: DB

Preparation Method: EPA 3570 Draft
Cleanup Method(s):
Analysis Method: GC/FID (EPA8100 mod.)
Matrix: Soil
Preservation: None
Decanted: No

Sample Size: 2.082 g
%Solid: 82%
Extract Volume: 2 mL
Prep DF: 1
Analysis DF: 1
Injection Volume: 0.001 mL

Batch QC: GB010702-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	EDL mg/kg	Comments
TARGET COMPOUNDS:					
Benzene	0.26	B	0.12	0.06	
Toluene	0.14	B	0.12	0.06	
Ethylbenzene	0.11	JB	0.12	0.06	
m/p-Xylene	0.28	B	0.12	0.06	
Styrene		U	0.12	0.06	
o-Xylene	0.09	J	0.12	0.06	
Isopropyltoluene		U	0.12	0.06	
Propylbenzene		U	0.12	0.06	
1,3,5-Trimethylbenzene		U	0.12	0.06	
1,2,4-Trimethylbenzene	0.07	J	0.23	0.12	
sec-Butylbenzene		U	0.12	0.06	
p-Isopropyltoluene		U	0.12	0.06	
n-Butylbenzene		U	0.12	0.06	
Naphthalene	0.60		0.12	0.06	
2-Methylnaphthalene		U	0.12	0.06	
1-Methylnaphthalene		U	0.12	0.06	
Acenaphthylene		U	0.12	0.06	
Acenaphthene		U	0.12	0.06	
Dibenzofuran		U	0.12	0.06	
Fluorene		U	0.12	0.06	
Phenanthrene		U	0.12	0.06	
Anthracene		U	0.12	0.06	
Fluoranthene		U	0.12	0.06	
Pyrene		U	0.12	0.06	
Benz(a)anthracene		U	0.12	0.06	
Chrysene		U	0.12	0.06	
Benzo(b)fluoranthene		U	0.12	0.06	
Benzo(k)fluoranthene		U	0.12	0.06	
Benzo(a)pyrene		U	0.12	0.06	
Indeno(123-cd)pyrene		U	0.12	0.06	
Dibenz(a,h)anthracene		U	0.12	0.06	
Benzo(g,h,i)perylene		U	0.12	0.06	
Total MAH	0.88				
Total PAH	0.60				
Surrogates	%R		Min	Max	
Fluorobenzene (SS1)	79%		50%	150%	
2-Fluorobiphenyl (SS2)	87%		50%	120%	
5-alpha-Androstane (SS3)	84%		50%	120%	

Qualifiers:

B Analyte detected in the blank
D Analyte reported from a diluted extract
U Undetected above the detection limit
J Estimated value detected between the reporting and detection limits
E Estimated value detected above calibration range
I Concentration/Peak ID uncertain due to potential interference
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL Estimated detection limit is 50% of the RL
Total MAH does not include C3- or C4-benzenes
Total PAH does not include Dibenzofuran

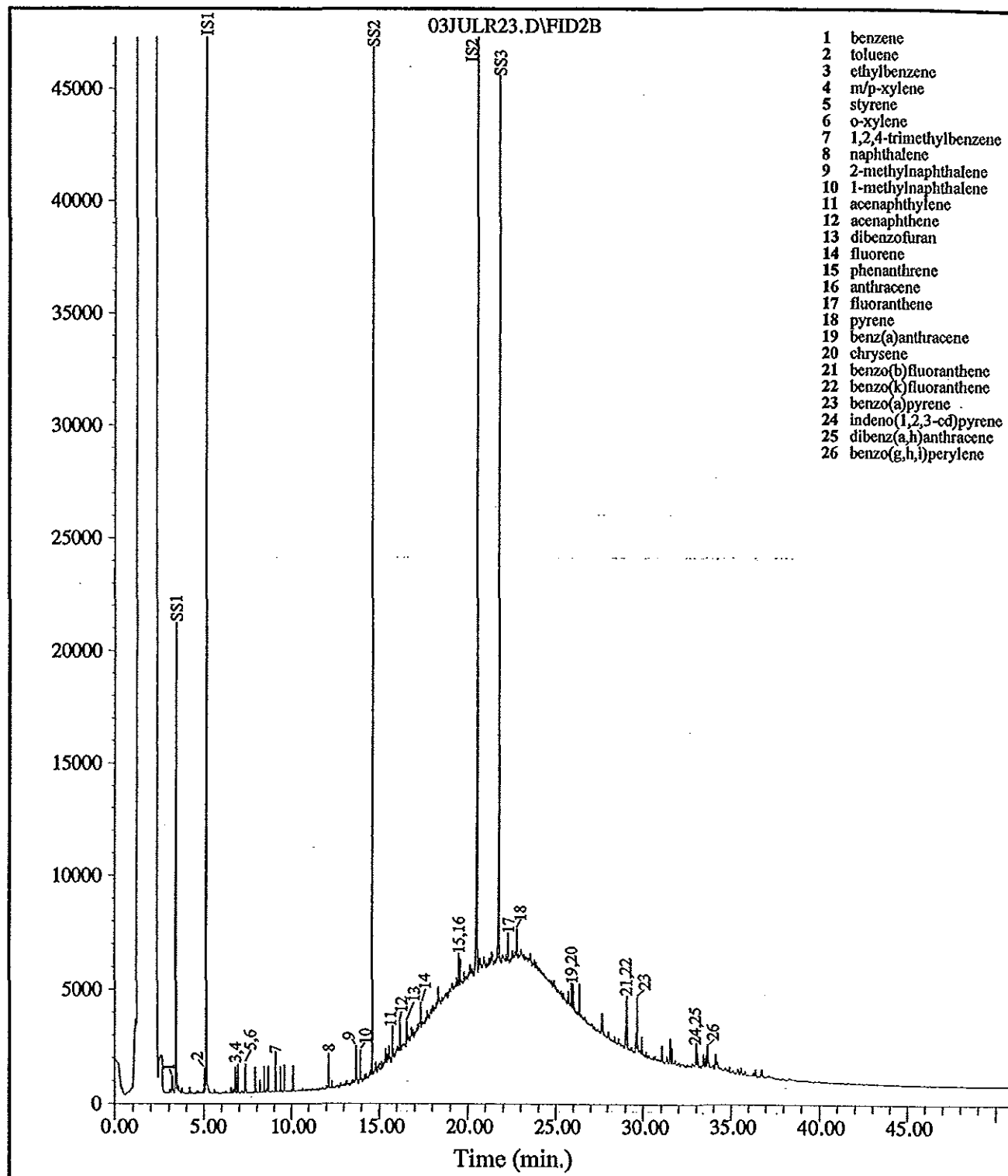
monocyclic aromatic hydrocarbons
polycyclic

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Appendix C

Chromatograms

GC/FID Fingerprint



IS1 - 2,4-difluorotoluene

IS2 - o-terphenyl

SS1 - fluorobenzene

SS2 - 2-fluorobiphenyl

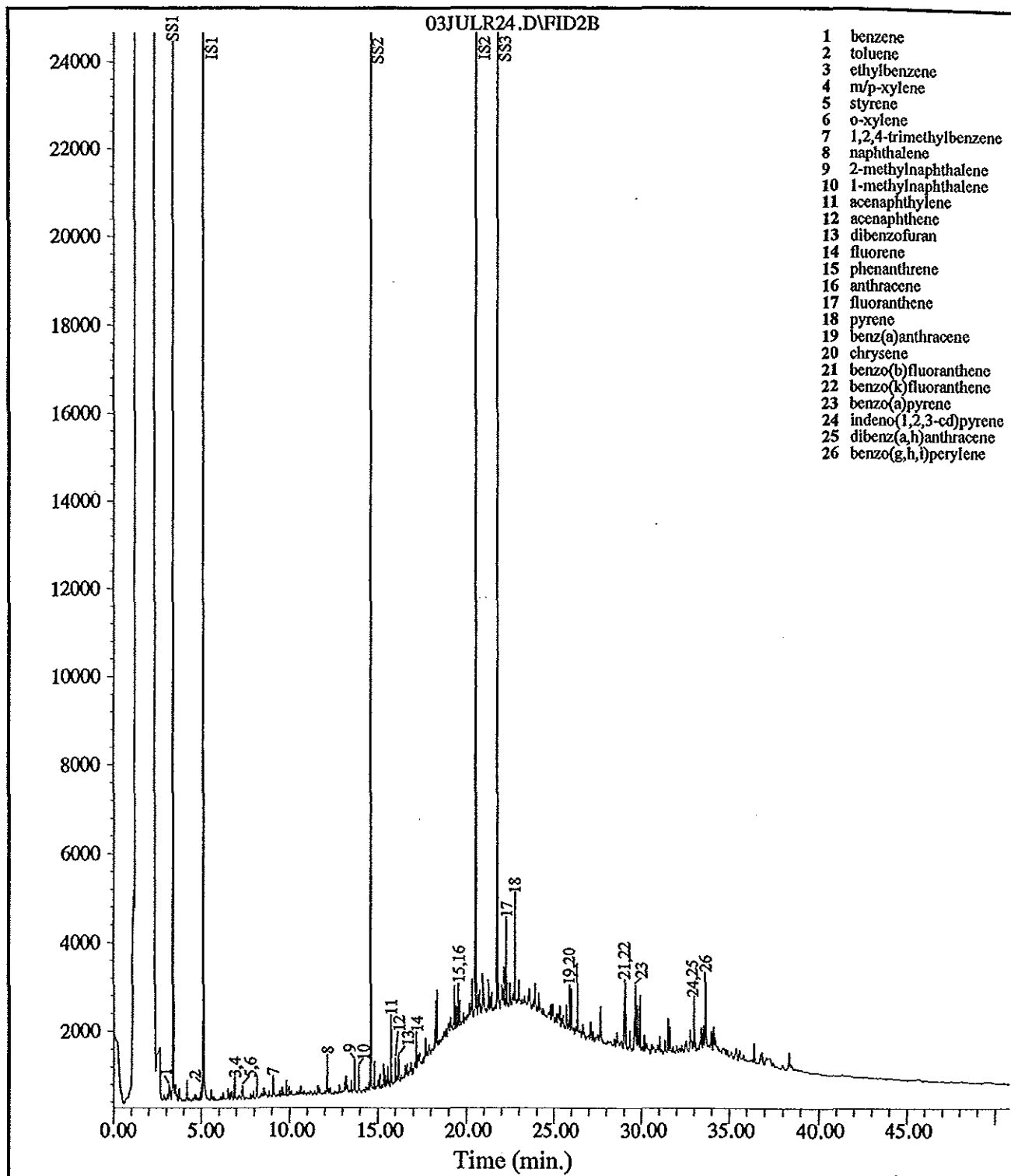
SS3 - 5 α -androstan

Field ID: TP-2

Laboratory ID: GB010628-01

Method: MET4007D

GC/FID Fingerprint



IS1 - 2,4-difluorotoluene

IS2 - o-terphenyl

SS1 - fluorobenzene

SS2 - 2-fluorobiphenyl

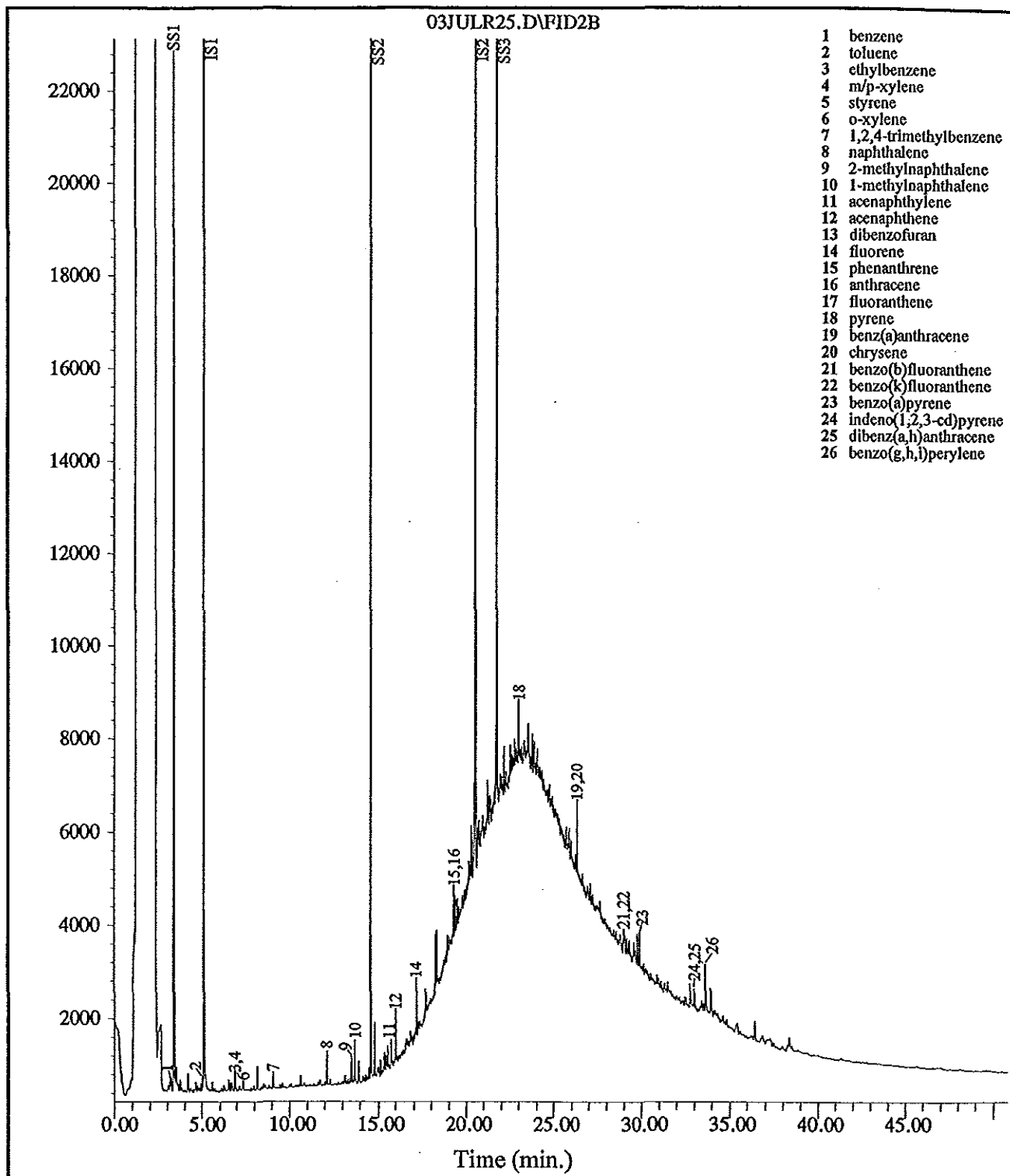
SS3 - 5 α -androstane

Field ID: TP-2B

Laboratory ID: GB010628-02

Method: MET4007D

GC/FID Fingerprint



IS1 - 2,4-difluorotoluene

IS2 - o-terphenyl

SS1 - fluorobenzene

SS2 - 2-fluorobiphenyl

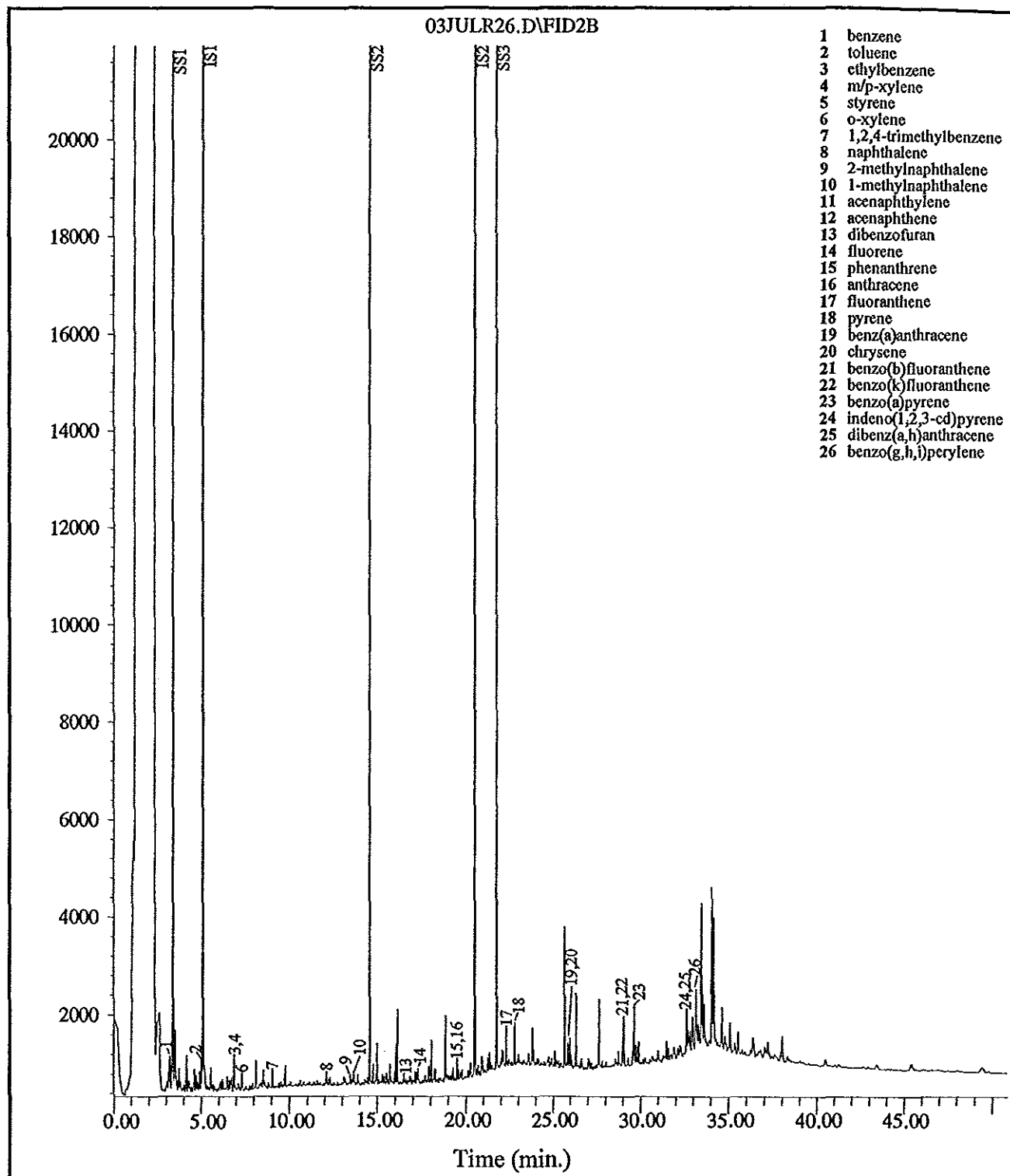
SS3 - 5 α -androstane

Field ID: TP-3

Laboratory ID: GB010628-03

Method: MET4007D

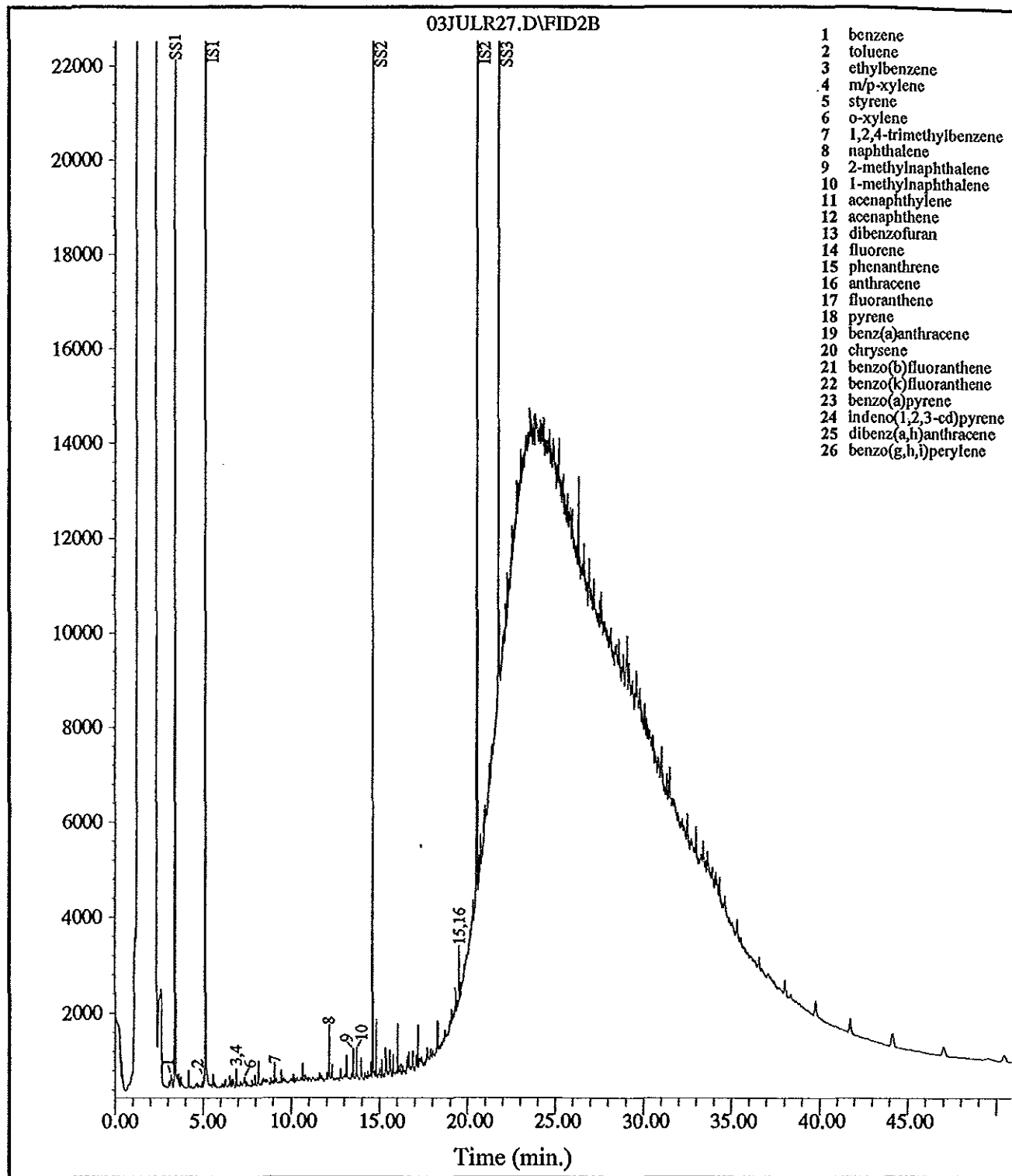
GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
 IS2 - o-terphenyl
 SS1 - fluorobenzene
 SS2 - 2-fluorobiphenyl
 SS3 - 5α-androstane

Field ID: TP-5
 Laboratory ID: GB010628-04
 Method: MET4007D

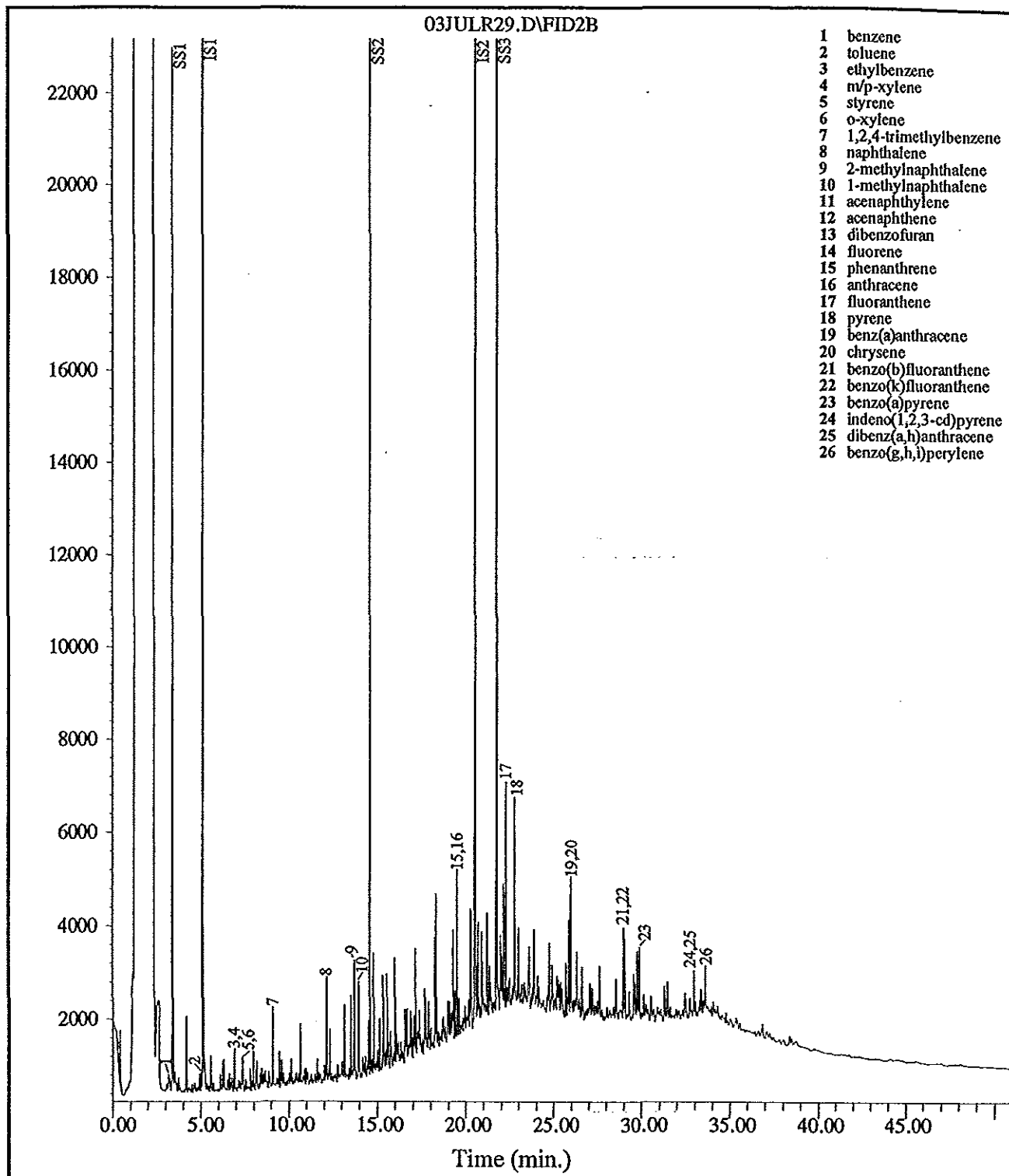
GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
IS2 - o-terphenyl
SS1 - fluorobenzene
SS2 - 2-fluorobiphenyl
SS3 - 5 α -androstane

Field ID: TP-9
Laboratory ID: GB010628-05
Method: MET4007D

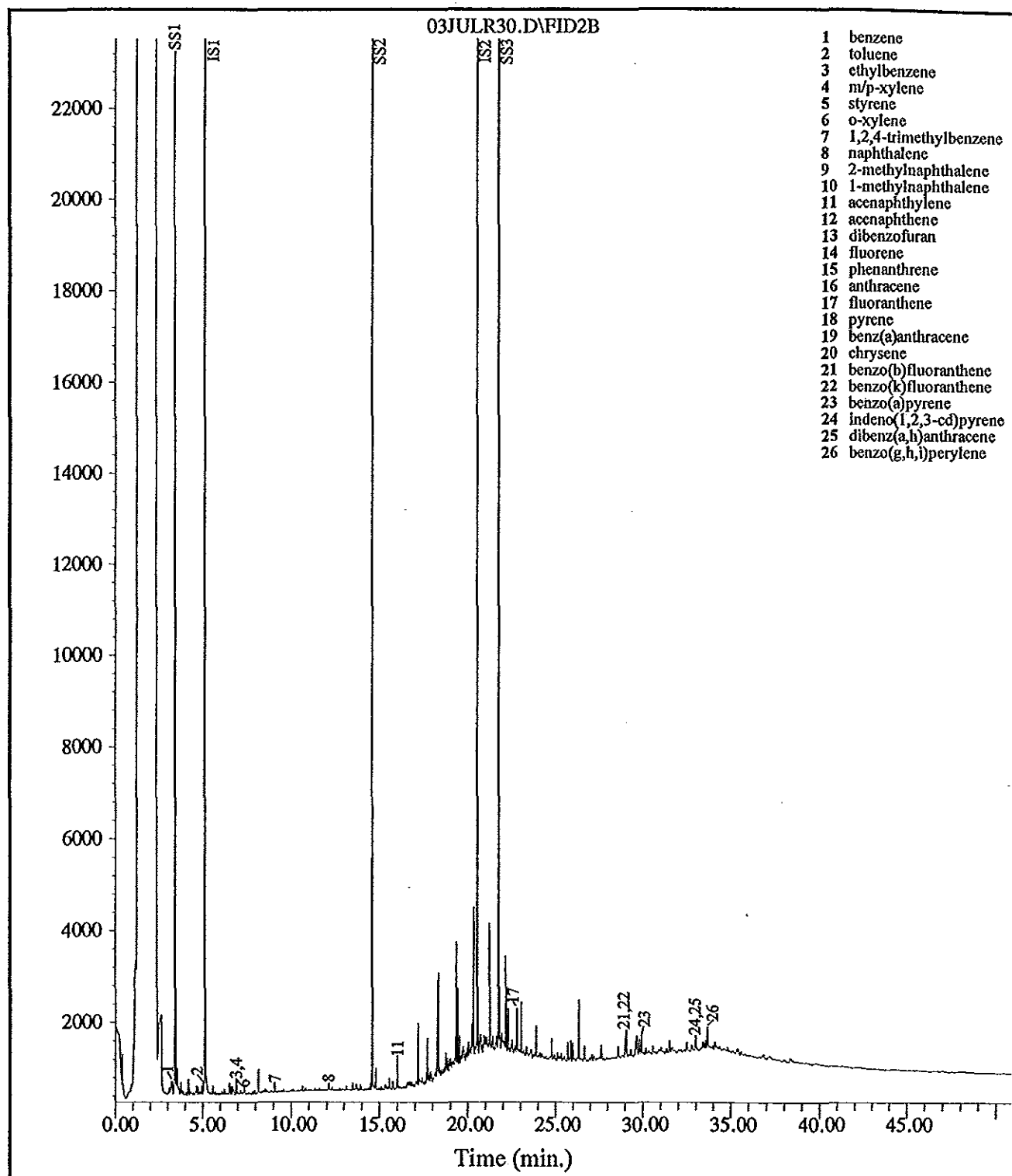
GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
 IS2 - o-terphenyl
 SS1 - fluorobenzene
 SS2 - 2-fluorobiphenyl
 SS3 - 5 α -androstane

Field ID: TP-10
 Laboratory ID: GB010628-06
 Method: MET4007D

GC/FID Fingerprint



IS1 - 2,4-difluorotoluene
 IS2 - o-terphenyl
 SS1 - fluorobenzene
 SS2 - 2-fluorobiphenyl
 SS3 - 5 α -androstane

Field ID: TP-14
 Laboratory ID: GB010628-07
 Method: MET4007D

SOIL BORING ANALYTICAL RESULTS

PARADIGM**Environmental Services, Inc.** 179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311Client: Geomatrix Consultants

Lab Project No.: 447424

Client Job Site: N/A

Lab Sample No.: 11381

Client Job No.: 7250

Sample Type: Soil

Field Location: B-1

Date Sampled: 12/11/2001

Field ID No.: N/A

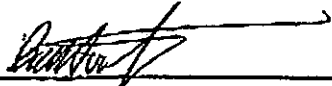
Date Received: 12/12/2001

Parameter	Date Analyzed	Analytical Method	Result (ug/g)
Total Cyanide	12/20/2001	EPA-9012	2.1

ELAP ID No.: 10249

Comments: ND denotes Non Detected.

Approved By: _____


Laboratory Director

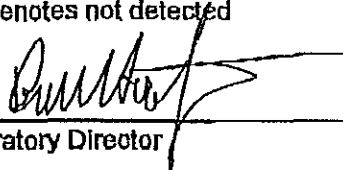
**PARADIGM
ENVIRONMENTAL
SERVICES, INC.**178 Lake Avenue Rochester, New York 14608 716-847-2530 FAX 716-847-3311**Volatile Aromatic Analysis Report For Solids (STARS List)****Client:** Geomatrix Consultants**Lab Project No.:** 01-3125**Lab Sample No.:** 11381**Client Job Site:** N/A**Sample Type:** Soil**Client Job No.:** 7250**Date Sampled:** 12/11/01**Field Location:** B-1**Date Received:** 12/13/01**Field ID No.:** N/A**Date Analyzed:** 12/17/01

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	ND< 11.5
Benzene	ND< 11.5
Toluene	ND< 11.5
Ethylbenzene	ND< 11.5
m,p-Xylene	ND< 11.5
o-Xylene	ND< 11.5
Isopropylbenzene	ND< 11.5
n-Propylbenzene	ND< 11.5
1,3,5-Trimethylbenzene	ND< 11.5
tert-Butylbenzene	ND< 11.5
1,2,4-Trimethylbenzene	ND< 11.5
sec-Butylbenzene	ND< 11.5
p-Isopropyltoluene	ND< 11.5
n-Butylbenzene	ND< 11.5
Naphthalene	ND< 57.4

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: 

Laboratory Director

PARADIGM**ENVIRONMENTAL
SERVICES, INC.**

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS:List)Client: **Geomatrix Consultants**

Lab Project No. 01-3125

Client Job Site: N/A

Lab Sample No. 11381

Client Job No.: 7250

Sample Type: Soil

Field Location: B-1

Date Sampled: 12/11/01

Field ID No.: N/A

Date Received: 12/13/01

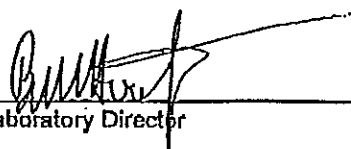
Date Analyzed: 12/20/01

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 353
Acenaphthene	ND< 353
Fluorene	ND< 353
Fluoranthene	ND< 353
Anthracene	ND< 353
Phenanthrene	ND< 353
Benzo (a) anthracene	ND< 353
Chrysene	ND< 353
Pyrene	ND< 353
Benzo (b) fluoranthene	ND< 353
Benzo (k) fluoranthene	ND< 353
Benzo (g,h,i) perylene	ND< 353
Benzo (a) pyrene	ND< 353
Dibenz (a,h) anthracene	ND< 353
Indeno (1,2,3-cd) pyrene	ND< 353

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: 

Laboratory Director

PARADIGM**Environmental Services, Inc.** 179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311Client: Geomatrix Consultants

Lab Project No.: 7250

Client Job Site: N/A

Lab Sample No.: 11382

Client Job No.: 7250

Sample Type: Soil

Field Location: B-2

Date Sampled: 12/11/2001

Field ID No.: N/A

Date Received: 12/12/2001

Parameter	Date Analyzed	Analytical Method	Result (ug/g)
Total Cyanide	12/20/2001	EPA-9012	<1.0

ELAP ID.No.: 10249

Comments: ND denotes Non Detected.

Approved By: _____

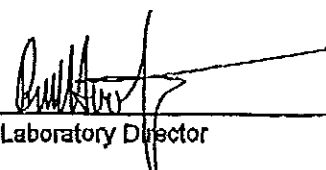

Laboratory Director

PARADIGM**ENVIRONMENTAL
SERVICES, INC.**

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)**Client:** Geomatrix Consultants**Lab Project No.** 01-3125**Lab Sample No.** 11382**Client Job Site:** N/A**Sample Type:** Soil**Client Job No.:** 7250**Date Sampled:** 12/11/01**Field Location:** B-2**Date Received:** 12/13/01**Field ID No.:** N/A**Date Analyzed:** 12/20/01

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 344
Acenaphthene	ND< 344
Fluorene	ND< 344
Fluoranthene	ND< 344
Anthracene	ND< 344
Phenanthrene	ND< 344
Benzo (a) anthracene	ND< 344
Chrysene	ND< 344
Pyrene	ND< 344
Benzo (b) fluoranthene	ND< 344
Benzo (k) fluoranthene	ND< 344
Benzo (g,h,i) perylene	ND< 344
Benzo (a) pyrene	ND< 344
Dibenz (a,h) anthracene	ND< 344
Indeno (1,2,3-cd) pyrene	ND< 344

Analytical Method: EPA 8270**NYS ELAP ID No.:** 10958**Comments:** ND denotes Not Detected**Approved By:** 

Laboratory Director

**PARADIGM
ENVIRONMENTAL
SERVICES, INC.**

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)Client: Geomatrix Consultants

Lab Project No.: 01-3125

Lab Sample No.: 11382

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 12/11/01

Field Location: B-2

Date Received: 12/13/01

Field ID No.: N/A

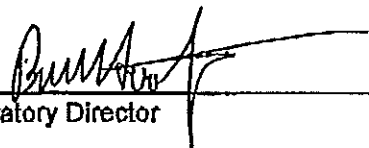
Date Analyzed: 12/18/01

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	ND< 10.4
Benzene	ND< 10.4
Toluene	ND< 10.4
Ethylbenzene	ND< 10.4
m,p-Xylene	ND< 10.4
o-Xylene	ND< 10.4
Isopropylbenzene	ND< 10.4
n-Propylbenzene	ND< 10.4
1,3,5-Trimethylbenzene	ND< 10.4
tert-Butylbenzene	ND< 10.4
1,2,4-Trimethylbenzene	ND< 10.4
sec-Butylbenzene	ND< 10.4
p-Isopropyltoluene	ND< 10.4
n-Butylbenzene	ND< 10.4
Naphthalene	ND< 51.8

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: 

Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Laboratory Analysis For Petroleum Hydrocarbons in Soil/Solid Matrix

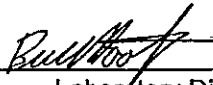
Client:	<u>Geomatrix Consultants</u>	Lab Project No.:	01-3125
Client Job Site:	N/A	Lab Sample No.:	11383
Client Job No.:	7250	Sample Type:	Soil
Field Location:	B-4	Date Sampled:	12/11/01
Field ID No:	N/A	Date Received:	12/12/01
		Date Analyzed:	12/26/01

Petroleum Hydrocarbon	Result (ug/Kg)	Reporting Limit (ug/Kg)
Heavy Weight PHC	1,010,000	9,350

N.Y.D.O.H. Analytical Method: 310.13 modified ELAP ID No.: 10958

Comments: BDL denotes Below Detection Limit

Approved By: _____


Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Laboratory Analysis For Petroleum Hydrocarbons in Soil/Solid Matrix

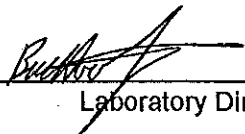
Client:	<u>Geomatrix Consultants</u>	Lab Project No.:	01-3125
Client Job Site:	N/A	Lab Sample No.:	11384
Client Job No.:	7250	Sample Type:	Soil
Field Location:	B-7	Date Sampled:	12/11/01
Field ID No:	N/A	Date Received:	12/12/01
		Date Analyzed:	12/27/01

Petroleum Hydrocarbon	Result (ug/Kg)	Reporting Limit (ug/Kg)
Heavy Weight PHC	17,500	8,350

N.Y.D.O.H. Analytical Method: 310.13 modified ELAP ID No.: 10958

Comments: BDL denotes Below Detection Limit

Approved By:



Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Laboratory Analysis For Petroleum Hydrocarbons in Soil/Solid Matrix

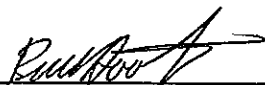
Client:	<u>Geomatrix Consultants</u>	Lab Project No.:	01-3125
Client Job Site:	N/A	Lab Sample No.:	11385
Client Job No.:	7250	Sample Type:	Soil
Field Location:	B-8	Date Sampled:	12/11/01
Field ID No:	N/A	Date Received:	12/12/01
		Date Analyzed:	12/27/01

Petroleum Hydrocarbon	Result (ug/Kg)	Reporting Limit (ug/Kg)
Petroleum Hydrocarbon	BDL	8,560

N.Y.D.O.H. Analytical Method: 310.13 modified ELAP ID No.: 10958

Comments: BDL denotes Below Detection Limit

Approved By: _____


Laboratory Director

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

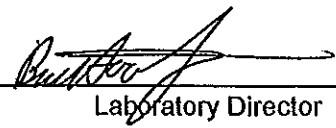
Laboratory Analysis For Petroleum Hydrocarbons in Soil/Solid Matrix

Client:	<u>Geomatrix Consultants</u>	Lab Project No.:	01-3125
Client Job Site:	N/A	Lab Sample No.:	11386
Client Job No.:	7250	Sample Type:	Soil
Field Location:	B-10	Date Sampled:	12/11/01
Field ID No:	N/A	Date Received:	12/12/01
		Date Analyzed:	12/27/01

Petroleum Hydrocarbon	Result (ug/Kg)	Reporting Limit (ug/Kg)
Heavy Weight PHC	2,190,000	8,440

N.Y.D.O.H. Analytical Method: 310.13 modified ELAP ID No.: 10958

Comments: BDL denotes Below Detection Limit

Approved By: 

Laboratory Director

PARADIGM

ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client: Geomatrix Consultants

Lab Project No. 01-3125R

Lab Sample No. 11386R

Client Job Site: N/A

Sample Type: Soil

Client Job No.: 7250

Date Sampled: 12/11/01

Field Location: B-10

Date Received: 01/04/02

Field ID No.: N/A

Date Analyzed: 01/07/02

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 343
Acenaphthene	ND< 343
Fluorene	ND< 343
Fluoranthene	ND< 343
Anthracene	ND< 343
Phenanthrene	ND< 343
Benzo (a) anthracene	ND< 343
Chrysene	ND< 343
Pyrene	ND< 343
Benzo (b) fluoranthene	ND< 343
Benzo (k) fluoranthene	ND< 343
Benzo (g,h,i) perylene	ND< 343
Benzo (a) pyrene	ND< 343
Dibenz (a,h) anthracene	ND< 343
Indeno (1,2,3-cd) pyrene	ND< 343

Analytical Method: EPA 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected
Sample analyzed outside of holding time

Approved By: _____

Laboratory Director

Page 1 of 1

REMARKS

Additional Comments

①

Geomatrix Consultants
338 Harris Hill Road, Suite 201
Williamsville, New York 14221
(716) 565-0624

GROUNDWATER ANALYTICAL RESULTS



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 716-647-2530 FAX 716-647-3311

Client: Geomatrix Consultants

Client Job Site: N/A

Client Job No.: 7250

Field Location: MW-1

Lab Project No.: 02-0177

Lab Sample No.: 1234

Sample Type: Water

Date Sampled: 01/10/2002

Date Received: 01/11/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Nitrate-N	01/22/2002	EPA 353.1	ND<0.02

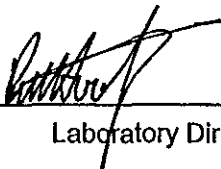
ELAP ID.No.: 10709

Comments:

ND denotes Non Detected.

NYS DOH's maximum contaminant level for Nitrate-N in drinking water is 10.0 mg/l.

Approved By: _____


Laboratory Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Client Job No.: 7250

Sample Type: Water

Analytical Method: EPA 335.3

Date Sampled: 01/10/2002

Date Received: 01/11/2002

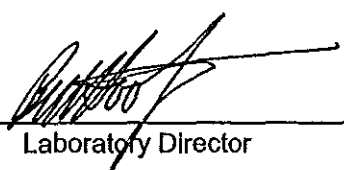
Date Analyzed: 01/17/2002

Lab Sample ID.	Sample Location/Field ID	Total Cyanide (mg/l)
1234	MW-1	ND<0.01

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By: _____


Laboratory Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Client Job No.: 7250

Sample Type: Water

Analytical Method: EPA 335.3

Date Sampled: 01/10/2002

Date Received: 01/11/2002

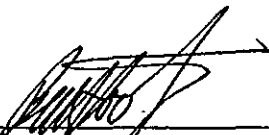
Date Analyzed: 01/17/2002

Lab Sample ID.	Sample Location/Field ID	Total Cyanide (mg/l)
1235	MW-2	ND<0.01

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By: _____


Laboratory Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Client Job No.: 7250

Sample Type: Water

Analytical Method: EPA 335.3

Date Sampled: 01/10/2002

Date Received: 01/11/2002

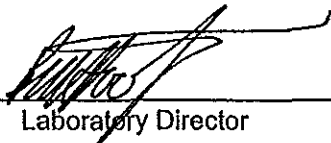
Date Analyzed: 01/17/2002

Lab Sample ID.	Sample Location/Field ID	Total Cyanide (mg/l)
1236	MW-3	0.11

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By: _____


Laboratory Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Client Job No.: 7250

Sample Type: Water

Analytical Method: EPA 335.3

Date Sampled: 01/10/2002

Date Received: 01/11/2002

Date Analyzed: 01/17/2002

Lab Sample ID.	Sample Location/Field ID	Total Cyanide (mg/l)
1237	MW-4	ND<0.01

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By: _____


Laboratory Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Client Job No.: 7250

Sample Type: Water

Analytical Method: EPA 335.3

Date Sampled: 01/10/2002

Date Received: 01/11/2002

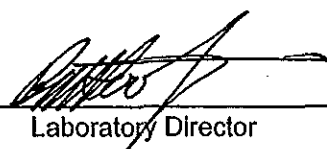
Date Analyzed: 01/17/2002

Lab Sample ID.	Sample Location/Field ID	Total Cyanide (mg/l)
1238	DUP-1	ND<0.01

ELAP ID No. 10709

Comments: ND denotes Non Detected.

Approved By: _____


Laboratory Director

**PARADIGM**

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 716-647-2530 FAX 716-647-3311

PESTICIDESClient: Geomatrix Consultants

Lab Project No: 02-0177

Client Job Site: N/A

Lab Sample No: 1234

Client Job No: 7250

Sample Type: Water

Field Location: MW-1

Date Received: 01/10/2002

Date Received: 01/11/2002

Date Analyzed: 01/14/2002

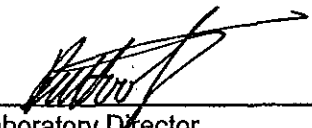
Parameter	Result ug/l	Reporting Limit ug/l
Aldrin	ND	<0.05
alpha-BHC	ND	<0.05
beta-BHC	ND	<0.05
gamma-BHC	ND	<0.05
delta-BHC	ND	<0.05
Chlordane	ND	<0.5
4,4'-DDD	ND	<0.1
4,4'-DDE	ND	<0.1
4,4'-DDT	ND	<0.1
Dieldrin	ND	<0.1
Endosulfan I	ND	<0.05
Endosulfan II	ND	<0.1
Endosulfan Sulfate	ND	<0.1
Endrin	ND	<0.1
Endrin Aldehyde	ND	<0.1
Heptachlor	ND	<0.05
Heptachlor Epoxide	ND	<0.05
Toxaphene	ND	<1
Methoxychlor	ND	<0.5

Analytical Method: EPA 608

ELAP ID. No.:10709

Comments: ND denotes Not Detected

Approved By: _____


Laboratory Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

HERBICIDES

Client:	<u>Geomatrix Consultants</u>	Lab Project No:	02-0177
Client Job Site:	N/A	Lab Sample No:	1234
Client Job No:	7250	Sample Type:	Water
Field Location:	MW-1	Date Sampled:	01/10/2002
		Date Received:	01/11/2002
		Date Analyzed:	01/14/2002

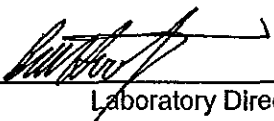
Parameter	Result ug/l	Reporting Limit ug/l
2,4-D	ND	<1.0
2, 4, 5-T	ND	<1.0
2,4,5-TP (Silvex)	ND	<1.0

Analytical Method: SM 18 6640B

ELAP ID: 10709

Comments: ND denotes Non Detected.

Approved By: _____


Laboratory Director



PARADIGM

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (716) 647-2530 FAX (716) 647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Lab Sample No.: 1234

Client Job No.: 7250

Sample Type: Water

Field Location: MW-1

Date Sampled: 01/10/2002

Field ID No.: N/A

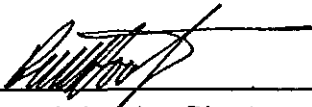
Date Received: 01/11/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	01/15/2002	EPA 6010	<0.005
Barium	01/15/2002	EPA 6010	0.076
Cadmium	01/15/2002	EPA 6010	<0.005
Chromium	01/15/2002	EPA 6010	<0.010
Lead	01/15/2002	EPA 6010	<0.005
Mercury	01/15/2002	EPA 7470	<0.0002
Selenium	01/15/2002	EPA 6010	<0.005
Silver	01/15/2002	EPA 6010	<0.010

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director



179 Lake Avenue, Rochester, NY 14608 (716) 647-2530 FAX (716) 647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Lab Sample No.: 1235

Client Job No.: 7250

Sample Type: Water

Field Location: MW-2

Date Sampled: 01/10/2002

Field ID No.: N/A

Date Received: 01/11/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	01/15/2002	EPA 6010	<0.005
Barium	01/15/2002	EPA 6010	0.103
Cadmium	01/15/2002	EPA 6010	<0.005
Chromium	01/15/2002	EPA 6010	<0.010
Lead	01/15/2002	EPA 6010	<0.005
Mercury	01/15/2002	EPA 7470	<0.0002
Selenium	01/15/2002	EPA 6010	<0.005
Silver	01/15/2002	EPA 6010	<0.010

ELAP ID No.:10958

Comments:

Approved By: _____

Laboratory Director

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Lab Sample No.: 1236

Client Job No.: 7250

Sample Type: Water

Field Location: MW-3

Date Sampled: 01/10/2002

Field ID No.: N/A

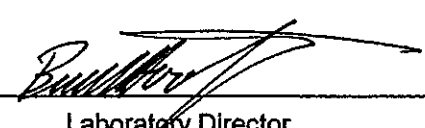
Date Received: 01/11/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	01/15/2002	EPA 6010	<0.005
Barium	01/15/2002	EPA 6010	0.081
Cadmium	01/15/2002	EPA 6010	<0.005
Chromium	01/15/2002	EPA 6010	<0.010
Lead	01/15/2002	EPA 6010	<0.005
Mercury	01/15/2002	EPA 7470	<0.0002
Selenium	01/15/2002	EPA 6010	<0.005
Silver	01/15/2002	EPA 6010	<0.010

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director

**PARADIGM**

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (716) 647-2530 FAX (716) 647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Lab Sample No.: 1237

Client Job No.: 7250

Sample Type: Water

Field Location: MW-4

Date Sampled: 01/10/2002

Field ID No.: N/A

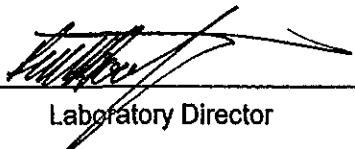
Date Received: 01/11/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	01/15/2002	EPA 6010	<0.005
Barium	01/15/2002	EPA 6010	0.394
Cadmium	01/15/2002	EPA 6010	<0.005
Chromium	01/15/2002	EPA 6010	<0.010
Lead	01/15/2002	EPA 6010	<0.005
Mercury	01/15/2002	EPA 7470	<0.0002
Selenium	01/15/2002	EPA 6010	<0.005
Silver	01/15/2002	EPA 6010	<0.010

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director

File ID: 020177



179 Lake Avenue, Rochester, NY 14608 (716) 647-2530 FAX (716) 647-3311

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Lab Sample No.: 1238

Client Job No.: 7250

Sample Type: Water

Field Location: DUP-1

Date Sampled: 01/10/2002

Field ID No.: N/A

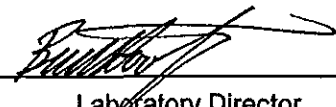
Date Received: 01/11/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	01/15/2002	EPA 6010	<0.005
Barium	01/15/2002	EPA 6010	0.105
Cadmium	01/15/2002	EPA 6010	<0.005
Chromium	01/15/2002	EPA 6010	<0.010
Lead	01/15/2002	EPA 6010	<0.005
Mercury	01/15/2002	EPA 7470	<0.0002
Selenium	01/15/2002	EPA 6010	<0.005
Silver	01/15/2002	EPA 6010	<0.010

ELAP ID No.:10958

Comments:

Approved By: _____


Laboratory Director

PARADIGM

ENVIRONMENTAL

SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1234

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: MW-1

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/15/02

COMPOUND	RESULT (ug/L)
Naphthalene	ND< 10.0
Acenaphthene	ND< 10.0
Fluorene	ND< 10.0
Fluoranthene	ND< 10.0
Anthracene	ND< 10.0
Phenanthrene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Chrysene	ND< 10.0
Pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0

EPA Analytical Method: 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____

Laboratory Director

PARADIGM

**ENVIRONMENTAL
SERVICES, INC.**

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1235

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: MW-2

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/15/02

COMPOUND	RESULT (ug/L)
Naphthalene	ND< 10.0
Acenaphthene	ND< 10.0
Fluorene	ND< 10.0
Fluoranthene	ND< 10.0
Anthracene	ND< 10.0
Phenanthrene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Chrysene	ND< 10.0
Pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0

EPA Analytical Method: 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____

Laboratory Director

PARADIGM

**ENVIRONMENTAL
SERVICES, INC.**

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1236

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: MW-3

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/15/02

COMPOUND	RESULT (ug/L)
Naphthalene	ND< 10.0
Acenaphthene	ND< 10.0
Fluorene	ND< 10.0
Fluoranthene	ND< 10.0
Anthracene	ND< 10.0
Phenanthrene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Chrysene	ND< 10.0
Pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0

EPA Analytical Method: 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____

Laboratory Director

PARADIGM

ENVIRONMENTAL

SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1237

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: MW-4

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/15/02

COMPOUND	RESULT (ug/L)
Naphthalene	ND< 10.0
Acenaphthene	ND< 10.0
Fluorene	ND< 10.0
Fluoranthene	ND< 10.0
Anthracene	ND< 10.0
Phenanthrene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Chrysene	ND< 10.0
Pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0

EPA Analytical Method: 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____

Laboratory Director

PARADIGM

**ENVIRONMENTAL
SERVICES, INC.**

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1238

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: Dup-1

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/15/02

COMPOUND	RESULT (ug/L)
Naphthalene	ND< 10.0
Acenaphthene	ND< 10.0
Fluorene	ND< 10.0
Fluoranthene	ND< 10.0
Anthracene	ND< 10.0
Phenanthrene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Chrysene	ND< 10.0
Pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0

EPA Analytical Method: 8270

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: _____

Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1234

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: MW-1

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/12/02

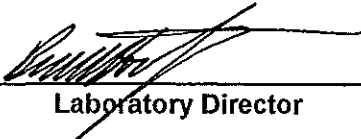
VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	ND< 2.00
Benzene	ND< 0.70
Toluene	ND< 2.00
Ethylbenzene	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Isopropylbenzene	ND< 2.00
n-Propylbenzene	ND< 2.00
1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00
1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00
p-Isopropyltoluene	ND< 2.00
n-Butylbenzene	ND< 2.00
Naphthalene	ND< 5.00

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____


Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1235

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: MW-2

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/12/02

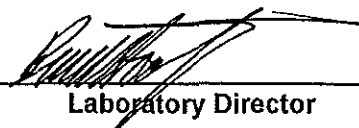
VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	ND< 2.00
Benzene	ND< 0.70
Toluene	ND< 2.00
Ethylbenzene	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Isopropylbenzene	ND< 2.00
n-Propylbenzene	ND< 2.00
1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00
1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00
p-Isopropyltoluene	ND< 2.00
n-Butylbenzene	ND< 2.00
Naphthalene	ND< 5.00

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____


Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Client Job Site: N/A

Lab Sample No.: 1236

Client Job No.: 7250

Sample Type: Water

Field Location: MW-3

Date Sampled: 01/10/02

Field ID No.: N/A

Date Received: 01/11/02

Date Analyzed: 01/12/02

VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	ND< 2.00
Benzene	ND< 0.70
Toluene	ND< 2.00
Ethylbenzene	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Isopropylbenzene	ND< 2.00
n-Propylbenzene	ND< 2.00
1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00
1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00
p-Isopropyltoluene	ND< 2.00
n-Butylbenzene	ND< 2.00
Naphthalene	ND< 5.00

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____


Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1237

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: MW-4

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/12/02

VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	ND< 2.00
Benzene	ND< 0.70
Toluene	ND< 2.00
Ethylbenzene	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Isopropylbenzene	ND< 2.00
n-Propylbenzene	ND< 2.00
1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00
1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00
p-Isopropyltoluene	ND< 2.00
n-Butylbenzene	ND< 2.00
Naphthalene	ND< 5.00

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____


Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1238

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: DUP-1

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/12/02

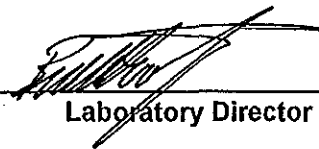
VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	ND< 2.00
Benzene	ND< 0.70
Toluene	ND< 2.00
Ethylbenzene	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Isopropylbenzene	ND< 2.00
n-Propylbenzene	ND< 2.00
1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00
1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00
p-Isopropyltoluene	ND< 2.00
n-Butylbenzene	ND< 2.00
Naphthalene	ND< 5.00

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____


Laboratory Director

PARADIGM
ENVIRONMENTAL
SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (STARS List)

Client: Geomatrix Consultants

Lab Project No.: 02-0177

Lab Sample No.: 1239

Client Job Site: N/A

Sample Type: Water

Client Job No.: 7250

Date Sampled: 01/10/02

Field Location: Trip Blank

Date Received: 01/11/02

Field ID No.: N/A

Date Analyzed: 01/12/02

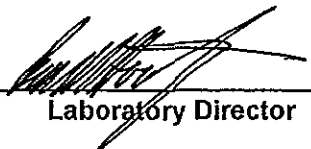
VOLATILE AROMATICS	RESULTS (ug/L)
Methyl tert-Butyl Ether	ND< 2.00
Benzene	ND< 0.70
Toluene	ND< 2.00
Ethylbenzene	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Isopropylbenzene	ND< 2.00
n-Propylbenzene	ND< 2.00
1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00
1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00
p-Isopropyltoluene	ND< 2.00
n-Butylbenzene	ND< 2.00
Naphthalene	ND< 5.00

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes not detected

Approved By: _____


Laboratory Director

Chain-of-Custody Record 02-0177

0153

Date: 1-10-02

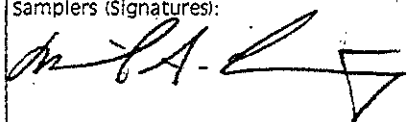
Page 1 of 1

Project No.: 7250

ANALYSES

REMARKS

Samplers (Signatures):



Additional Comments

Date Time Sample Number

Soil (S), Water (W),
Vapor (v), or Other

EPA Method 8010

EPA Method 8020

EPA Method 8240

EPA Method 8270

TPHG by:

TPHD by:

EPA Method 8020 (BTEX)

TPH:

STARS VOL

STARS SVOL

RCRA Metals

chlorinated SVOL

hydrocarbons SVOL

pesticides SVOL

Total Cyanide

Nitrates

Acidified

No. of containers

1-10-01

9:10

MW-1

W

X

X

X

X

X

X

X

X

#1234

6

11:25

MW-2

W

X

X

X

X

#1235

12:30

MW-3

W

X

X

X

X

#1236

10:30

MW-4

W

X

X

X

X

#1237

-

DUP-1

W

X

X

X

X

#1238

Trip Blank W

X

#1239

1

OK RCRA Metals of 1/10/02 0945

* RCRA Metals
list to include:

- arsenic
- barium
- cadmium
- chromium
- lead
- mercury
- selenium
- silver

Note: Samples MW-4
and DUP-1
use 1 40 mL VOC vial.
Please use amber glass
bottle quantity for SVOLs &
RCRA Metals analysis on DUP-1

Turnaround time:

STD.

Results to:

RICHARD FRAPPA

Total No. of containers:

19

Relinquished by (signature):



Printed name:

MICHAEL A. CUMMINGS

Company:

GUX

Date:

1/10/02

Time:

15:20

Relinquished by (signature):

Printed name:

Company:

Date:

Time:

Relinquished by (signature):

Printed name:

Company:

Date:

Time:

Method of shipment:

LABORATORY PICKUP

Laboratory comments and Log No.:

Received (signature):



Printed Name:

Anthony J. Iarcho

Company:

Date:

1/10/02

Time:

15:20

Received by (signature):

Printed Name:

Company:

Date:

Time:

Received by (signature):



Printed Name:

Jane J. Daloria

Company:

Paradigm

Date:

1/11/02

Time:

0945



Geomatrix Consultants

338 Harris Hill Road, Suite 201

Williamsville, New York 14221

(716) 565-0624

APPENDIX B

Soil Boring and Monitoring Well Logs

[illegible]

APPENDIX C

Test Pit Excavation Logs

PARSONS **TEST PIT RECORD**

PROJECT NAME: Iberdrola Pavilion, NY		TEST PIT ID: TP-15
PROJECT NUMBER: 449605		LOCATION: Iberdrola Pavilion, NY
WEATHER: Partly cloudy, windy, temperature in the 50s		Approximate L X W X D = 12' X 3' X 4' Located East side of site, near former above ground oil tank locations.
DATE/TIME START: 10/29/15 1225		
DATE/TIME FINISH: 10/29/15 1315		
CONTRACTOR: TREC Environmental		
INSPECTOR: Dale Dolph/Shane Blauvelt		
DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	(0-1 ft) Mostly gravel fill with some soil discoloration	PID Reading 0.1 PPM
1	Concrete slab encountered on east side at approximately 1 ft depth	PID Reading 0.0 PPM
	(1-1.5 ft) Gray silt with sand, some soil discoloration	PID Reading 0.0 PPM
	(1.5-4 ft) Gray clay with sand and silt, moist	
2	Soils appeared clean	
3	TP terminated at 4 ft depth	Sample collected at 3 ft depth
4		
5		
Bottom of test pit at 4.0 ft bgs		no groundwater encountered
Test pit was advanced utilizing a backhoe		

**PARSONS
TEST PIT RECORD**

PROJECT NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
WEATHER: Partly cloudy, windy, temperature in the 50s
DATE/TIME START: 10/29/15 1225
DATE/TIME FINISH: 10/29/15 1315
CONTRACTOR: TREC Environmental
INSPECTOR: Dale Dolph/Shane Blauvelt

TEST PIT ID: TP-15

LOCATION: Iberdrola Pavilion, NY

Approximate L X W X D
= 12' X 3' X 4'

Located East side of site,
near former above ground
oil tank locations.

PHOTOGRAPH

TP-15
Picture of
depth to gray
clay



TP-15
Picture of total
depth and
concrete slab
on east end



PARSONS **TEST PIT RECORD**

PROJECT NAME: <u>Iberdrola Pavilion, NY</u>		TEST PIT ID: TP-16
PROJECT NUMBER: <u>449605</u>		LOCATION: Iberdrola Pavilion, NY Approximate L X W X D = 25' X 3' X 5' Location: West side of site, next to former gas purifiers.
WEATHER: <u>Partly cloudy, windy, temperature in the 50s</u>		
DATE/TIME START: <u>10/29/15 1110</u>		
DATE/TIME FINISH: <u>10/29/15 1215</u>		
CONTRACTOR: <u>TREC Environmental</u>		
INSPECTOR: <u>Dale Dolph/Shane Blauvelt</u>		

DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	(0-1 ft) Gravel cover, fill, one foot on top of former gas purifier was discolored	PID Reading 0.0 PPM
1	(1-2 ft) Discolored gravel, sand fill	PID Reading 0.0 PPM
2	(2.5 ft) Gray silt	PID Reading 0.0 PPM
3	(3-5 ft) Gray clay, appeared native, on west end of TP excavated along edge of the former purifier pad	PID Reading 0.0 PPM
4	TP terminated at 5 ft depth, water observed at 3 to 4 ft depth	Sample collected at 4 ft depth
5		
Bottom of test pit at 5.0 ft bgs		groundwater encountered at approximately 3 to 4 ft
Test pit was advanced utilizing a backhoe		

**PARSONS
TEST PIT RECORD**

PROJECT NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
WEATHER: Partly cloudy, windy, temperature in the 50s
DATE/TIME START: 10/29/15 1110
DATE/TIME FINISH: 10/29/15 1215
CONTRACTOR: TREC Environmental
INSPECTOR: Dale Dolph/Shane Blauvelt

TEST PIT ID: TP-16

LOCATION: Iberdrola Pavilion, NY

Approximate L X W X D

= 25' X 3' X 5'

Location: West side of site,
next to former gas
purifiers.

PHOTOGRAPH

TP-16
Picture of
total depth
and edge of
former purifier
slab on east
end



PARSONS **TEST PIT RECORD**

PROJECT NAME: Iberdrola Pavilion, NY		TEST PIT ID: TP-17
PROJECT NUMBER: 449605		LOCATION: Iberdrola Pavilion, NY
WEATHER: Partly cloudy, windy, temperature in the 50s		Approximate L X W X D = 15' X 3' X 6' and 10' X 3' X 3' Location: West side of site, east of former tar separator.
DATE/TIME START: 10/29/15 0950		
DATE/TIME FINISH: 10/29/15 1045		
CONTRACTOR: TREC Environmental		
INSPECTOR: Dale Dolph/Shane Blauvelt		
DEPTH (feet bgs)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	(0-1 ft) Gravel fill	PID Reading 0.0 PPM
1		
2	(2-5 ft) Brick, wood, fill, stain, sheen, NAPL	PID Readings up to 2.7 PPM
3	Water observed at approximately 3 ft depth 6 inch steel pipe oriented north/south transects TP on southeast end Concrete footer oriented north/south transects TP in center	Sample collected at 3 ft depth
4		
5	(5-6 ft) Brown clay with sand	
	TP completed at 6 ft depth	Sample collected at 6 ft depth
6		
Continued TP to the north attempting to find former gas purifier pad, unable to locate.		
Bottom of test pit at 6.0 ft bgs		Groundwater encountered at approximately 3 ft
Test pit was advanced utilizing a backhoe		

**PARSONS
TEST PIT RECORD**

PROJECT NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
WEATHER: Partly cloudy, windy, temperature in the 50s
DATE/TIME START: 10/29/15 0950
DATE/TIME FINISH: 10/29/15 1045
CONTRACTOR: TREC Environmental
INSPECTOR: Dale Dolph/Shane Blauvelt

TEST PIT ID: TP-17

LOCATION: Iberdrola Pavilion, NY

Approximate L X W X D
= 15' X 3' X 6' and
10' X 3' X 3'

Location: West side of site,
east of former tar
separator.

PHOTOGRAPH

TP-17
Picture of NAPL,
staining, and
sheen on soils
and groundwater
near former tar
separator



TP-17
Picture of
stained soil in
northward
portion of test
pit



APPENDIX D

Groundwater Sampling Logs

PARSONS										
WELL DEVELOPMENT RECORD										
SITE NAME:	Iberdrola - Pavilion, NY	WELL NUMBER:	MW-01							
PROJECT NUMBER	449605	DATE:	10/21/15							
WELL INFORMATION:		WEATHER: Overcast; mild; 50s								
2" PVC STICK UP		TIME: 0830								
Total Depth (TOC) 19.35'										
DTW 6.44'										
Well Volume - 2.06 Gallons		DEVELOPER:								
PID HS - 0 ppm		Dale R. Dolph	of PARSONS of							
Time 24 hr	DTW ft.	Pump Rate ml/min	Vol liters	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	ORP	Comments
0830	6.44'	400	Surged Well Screen							
0840		400	4.0							
0850		100	8.0							
0855		100	8.5	6.74	2.37	1.41	16.54	0.5	0	
0900		100	9.0	6.85	1.68	1.40	16.37	0.0	-5	
0905		100	9.5	6.91	1.43	1.40	16.24	0.0	-16	
0910		100	10.0	6.93	1.19	1.39	16.10	0.9	-18	
0915	8.58'	100	10.5	6.94	1.07	1.38	15.98	0.5	-19	
0920	8.45'	100	11.0	6.94	1.05	1.38	15.94	0.5	-19	
	Readings Stabilized									
	2.86 Gallons Purged									
Remarks										
Well pad at ground level has heaved from asphalt but well riser appears intact.										
Pad replaced on 10/29/15										

PARSONS
WELL DEVELOPMENT RECORD

SITE NAME: Iberdrola - Pavilion, NY
PROJECT NUMBER 449605

WELL NUMBER: MW-02
DATE: 10/21/15

WELL INFORMATION:
2" PVC Flush Mount
Total Depth (TOC) 13.90'
DTW (TOC) 4.17'
Well Volume - 1.56 Gallons
PID HS - 0.4 ppm

WEATHER: Partly Cloudy; Mild; 60s
TIME: 1330

DEVELOPER:
Dale R. Dolph of PARSONS
of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol liters	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	ORP	Comments
1340		400	*Surged Well Screen							
1350		400	*Surged Well Screen							
1355		100	4.0							
1400		100	6.0	6.77	2.38	2.64	19.18	165.0	-58	
1405		100		6.77	1.90	2.73	18.75	162.0	-67	
1410		100	7.0	6.76	1.57	2.74	18.72	180.0	-71	
1415		100		6.76	1.26	2.74	18.62	165.0	-72	
1420		100	8.0	6.75	1.18	2.74	18.57	107.0	-73	
1425		100		6.86	1.35	2.75	18.76	59.9	-74	
1430		100	9.0	6.75	1.16	2.74	19.05**	95.2	-74	
1435		100		6.73	1.07	2.73	19.37	61.6	-74	
1440		100	10.0	6.74	0.99	2.71	19.49	61.9	-75	
1445		100		6.74	0.93	2.68	19.46	67.4	-75	
1450		100	11.0	6.75	0.93	2.67	19.35	46.9	-74	
	Readings Stabilized Turbidity <50 NTUs									
	2.86 Gallons Purged									

Remarks
 *Rust colored with Silt during Initial Purge
 **Particles observed in purge line affecting turbidity

[illegible]

PARSONS

WELL DEVELOPMENT RECORD

SITE NAME: Iberdrola - Pavilion, NY
PROJECT NUMBER 449605

WELL NUMBER: MW-04
DATE: 10/21/15

WELL INFORMATION:

2" PVC Flush Mount
Total Depth (TOC) 11.70'
DTW (TOC) 1.50'
Well Volume - 1.63 Gallons
PID HS - 0.2 ppm

WEATHER: Overcast; Light Rain; 50s
TIME: 0930

DEVELOPER:
Dale R. Dolph of PARSONS
 _____ of _____

[illegible]

Remarks

* Very silty with particles, small stones, some bentonite during initial purge

PARSONS

WELL DEVELOPMENT RECORD

SITE NAME: Iberdrola - Pavilion, NY
PROJECT NUMBER 449605

WELL NUMBER: MW-05
DATE: 11/2/15

WELL INFORMATION:
2" PVC Stick Up Installed on 10/28/15
Total Depth (TOC) 19.00'
DTW (TOC) 5.70'
Well Volume - 2.13 Gallons
PID HS - 0.4 ppm

WEATHER: Sunny; Warm; 50s
TIME: 0930

DEVELOPER:
Dale R. Dolph of PARSONS
 of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gallons	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	ORP	Comments
0930		Manually purged 6.5 Gallons from well with bailer								
1015	5.75'	300	6.5	Surging Screen with Peristaltic						
1020		100	7.7							
1035		100		6.56	8.45	1.88	18.82	542.0	54	
1040		100		6.60	7.20	1.86	19.18	338.0	47	
1045		100		6.61	6.61	1.86	19.11	253.0	47	
1050		100		6.61	6.12	1.86	19.19	215.0	46	
1055		100		6.61	5.83	1.90	18.78	179.0	49	
1100		100		6.61	5.39	1.89	19.13	141.0	54	
1105		100		6.61	5.10	1.88	19.29	129.0	50	
1110		100		6.61	4.69	1.86	19.33	115.0	49	
1115		100		6.61	4.50	1.85	19.31	99.2	49	
1120		100		6.60	4.36	1.84	19.49	101.0	49	
1125		100		6.61	4.13	1.83	19.59	82.0	51	
1130		100		6.60	3.93	1.84	19.61	69.3	50	
1135		100		6.61	3.86	1.84	19.64	64.8	52	
1140		100		6.61	3.68	1.84	19.65	60.9	52	
1145		100		6.61	3.56	1.84	19.61	58.0	52	
1150		100		6.62	3.44	1.83	19.59	52.7	53	
1155		100	9.88	6.61	3.39	1.83	19.55	44.7	54	
		Completed Development Turbidity 44.7 NTUs								

Remarks

Silty initially, took time for turbidity to get below 50 NTUs

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 11/23/2015 1040
Weather: Clear; Cold 25°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-01
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 6.70'
Depth to Well Bottom (Ft.): 19.35
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 12.65 x 0.16 = 2.024 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 1.6 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other: Clear during purging

FIELD TESTS

Temperature: 12.48 C Turbidity: 4.1 NTU
pH: 7.16 Dissolved O2: 1.42
Conductivity: 1.43 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: MW-01 MS / MW-01 MSD
Analyze QA/QC Samples For: Same as Above
Date/Time Refrigerated: 11/23/15 1040
Chain of Custody No.: 036118
Shipped Via: Fedex 11/24/15
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.0 ppm

SAMPLE MW-01 COLLECTED AT 1040

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 11/23/2015 1530
Weather: Clear; Cold 20°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-02
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 4.40'
Depth to Well Bottom (Ft.): 13.90
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 9.50 x 0.16 = 1.52 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 1.3 Gallons
Method: Peristaltic-Low Flow

SAMPLE DESCRIPTION

Odor: None
Other: Minor Turbidity

FIELD TESTS

Temperature: 12.92 C Turbidity: 37.7 NTU
pH: 7.19 Dissolved O2: 1.21
Conductivity: 3.14 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: None
Analyze QA/QC Samples For: -
Date/Time Refrigerated: 11/23/15 1530
Chain of Custody No.: 036118
Shipped Via: Fedex 11/24/15
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.5 ppm

SAMPLE MW-02 COLLECTED AT 1530

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PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 11/24/2015 1005
Weather: Overcast; Cold 30°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-03
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 6.25'
Depth to Well Bottom (Ft.): 14.70
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 8.45 x 0.16 = 1.35 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 1.3 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other: Clear

FIELD TESTS

Temperature: 12.58 C Turbidity: 1.5 NTU
pH: 7.3 Dissolved O2: 1.77
Conductivity: 0.934 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: None
Analyze QA/QC Samples For: -
Date/Time Refrigerated: 11/23/15 1005
Chain of Custody No.: 036118
Shipped Via: Fedex 11/24/15
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.0 ppm

SAMPLE MW-03 COLLECTED AT 1005

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 11/23/2015 1400
Weather: Clear; Cold 30°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-04
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 1.82'
Depth to Well Bottom (Ft.): 11.70
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 9.88 x 0.16 = 1.58 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 2 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other: Reddish during initial purge

FIELD TESTS

Temperature: 14.90 C Turbidity: 43.5 NTU
pH: 7.64 Dissolved O2: 1.18
Conductivity: 1.89 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: None
Analyze QA/QC Samples For: -
Date/Time Refrigerated: 11/23/15 1400
Chain of Custody No.: 036118
Shipped Via: Fedex 11/24/15
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.1 ppm

SAMPLE MW-04 COLLECTED AT 1400

Page 2 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605

WELL NUMBER: MW-04

WEATHER: Clear; Cold 30°F

DATE: 11/23/2015

TIME: 1230

DEVELOPER: Dale R. Dolph of PARSONS
of _____

2015-LowFlow Water Sampling records Nov 2015.xlsx PARSONS 3/2/2016

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 11/23/2015 1215
Weather: Overcast; Cold 20°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-05
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 6.82'
Depth to Well Bottom (Ft.): 18.90
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 12.08 x 0.16 = 1.93 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 1.5 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other: Clear

FIELD TESTS

Temperature: 12.99 C Turbidity: 4.5 NTU
pH: 6.73 Dissolved O2: 1.48
Conductivity: 2.08 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: MW-105 (duplicate)
Analyze QA/QC Samples For: Same as Above
Date/Time Refrigerated: 11/24/15 1215
Chain of Custody No.: 036118
Shipped Via: Fedex 11/24/15
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.0 ppm

SAMPLE MW-01 COLLECTED AT 1215

MW-105 (BLIND DUPLICATE) ALSO COLLECTED

Page 2 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605

WEATHER: Overcast; Cold 20°F

TIME: 1100

DEVELOPER: Dale R. Dolph of PARSONS
of _____

3/2/2016

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 1/20/2016 1100
Weather: Clear; Cold 20°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-01 / MW-01 MS / MW-01 MSD
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 5.94'
Depth to Well Bottom (Ft.): 19.35
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 13.41 x 0.16 = 2.15 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 2.34 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other:

FIELD TESTS

Temperature: 8.15 C Turbidity: 10.1 NTU
pH: 7.43 Dissolved O2: 1.19
Conductivity: 1.16 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: MW-01 MS / MW-01 MSD
Analyze QA/QC Samples For: Same as Above
Date/Time Refrigerated: 1/20/16 1100
Chain of Custody No.: 36107
Shipped Via: Fedex
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.1 ppm

Page 2 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605

WEATHER: Overcast, Light Snow; Cold 20°F

TIME: 0905

DEVELOPER: Dale R. Dolph of PARSONS
 of

3/2/2016

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 1/21/2016 0920
Weather: Overcast; Cold 15°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-02
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 3.68'
Depth to Well Bottom (Ft.): 13.90
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 10.22 x 0.16 = 1.64 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 1.8 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other: Some particles initially during purge

FIELD TESTS

Temperature: 6.00 C Turbidity: 4.8 NTU
pH: 6.75 Dissolved O2: 0.95
Conductivity: 3.22 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: N/A
Analyze QA/QC Samples For: N/A
Date/Time Refrigerated: 1/21/16 0920
Chain of Custody No.: 036107
Shipped Via: Fedex
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.0 ppm

Page 2 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605

WELL NUMBER: MW-02

WEATHER: Partly Cloudy; Cold 15°F

DATE: 1/21/2016

TIME: 0810

DEVELOPER: Dale R. Dolph of PARSONS
of _____

3/2/2016

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 1/21/2016 1130
Weather: Partly Cloudy; Cold 15°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-03
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 5.05'
Depth to Well Bottom (Ft.): 14.70
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 9.65 x 0.16 = 1.54 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 1.8 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other: Clear

FIELD TESTS

Temperature: 6.91 C Turbidity: 0.0 NTU
pH: 7.36 Dissolved O2: 1.44
Conductivity: 0.891 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: N/A
Analyze QA/QC Samples For: N/A
Date/Time Refrigerated: 1/21/16 1130
Chain of Custody No.: 036107
Shipped Via: Fedex
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.0 ppm

Page 2 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605

WELL NUMBER: MW-03

WEATHER: Partly Cloudy; Cold 15°F

DATE: 1/21/2016

TIME: 1020

DEVELOPER: Dale R. Dolph of PARSONS
of _____

2016-LowFlow Water Sampling records Jan 2016.xlsx

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 1/20/2016 1400
Weather: Partly Cloudy; Cold 20°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-04
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 1.30'
Depth to Well Bottom (Ft.): 11.70
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 10.4 x 0.16 = 1.66 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 2.08 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other: Reddish brown, turbid during initial purge

FIELD TESTS

Temperature: 6.48 C Turbidity: 42.0 NTU
pH: 7.43 Dissolved O2: 0.83
Conductivity: 2.19 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: N/A
Analyze QA/QC Samples For: N/A
Date/Time Refrigerated: 1/20/16 1400
Chain of Custody No.: 036107
Shipped Via: Fedex
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.0 ppm

Page 2 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605

WELL NUMBER: MW-04

WEATHER: Overcast; Cold 20°F

DATE: 1/20/2016

TIME: 1230

DEVELOPER: Dale R. Dolph of PARSONS
of _____

[illegible]

PARSONS
GROUNDWATER SAMPLING RECORD

Page 1 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605
Sampling Date/Time: 1/21/2016 MW-05 @ 1400 & MW-105 @ 1500
Weather: Overcast, Snow Flurries; Cold 15°F
Samplers: Dale R. Dolph of PARSONS
of
SAMPLE ID: MW-05 / Dup MW-105
Sampling Method: Peristaltic-Low Flow

WELL PURGING

Static Water Level (TOC): 5.88'
Depth to Well Bottom (Ft.): 19.00
CALCULATIONS: Ft. of Water in Well X (GAL / FT) = Gallons
2-inch Casing: Ft. of Water in Well 13.12 x 0.16 = 2.1 Gallons
3-inch Casing: Ft. of Water in Well x 0.32 = Gallons
24inch Casing: Ft. of Water in Well x 0.64 = Gallons
Volume Purged: 2.1 Gallons
Method: Peristaltic-Low Flow 100/ml minute

SAMPLE DESCRIPTION

Odor: None
Other: Clear

FIELD TESTS

Temperature: 6.99 C Turbidity: 0.0 NTU
pH: 6.77 Dissolved O2: 1.22
Conductivity: 1.87 ms/cm Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: SVOC / PCB / Pesticides / Herbicides / HG + Metals (TAL) / VOC / Cn, Cn Amenable, Cn Free
QA/QC Sample ID: MW-105 (duplicate)
Analyze QA/QC Samples For: Same as Above
Date/Time Refrigerated: 1/21/16 1400
Chain of Custody No.: 036107
Shipped Via: Fedex
Laboratory: CHEMTEC Mountainside, NJ

COMMENTS / MISCELLANEOUS PID HS-0.0 ppm

MW-105 (BLIND DUPLICATE) ALSO COLLECTED

Page 2 of 2

SITE NAME: Iberdrola Pavilion, NY
PROJECT NUMBER: 449605

WELL NUMBER: MW-05
DATE: 1/21/2016

WEATHER: Overcast, Moderate Snow; Cold 15°F
TIME: 1225

DEVELOPER: Dale R. Dolph of PARSONS
of _____

[illegible]

APPENDIX E

Data Usability Summary Reports

DATA USABILITY SUMMARY REPORT

RG&E Pavilion Former Manufactured Gas Plant – Property #1252 Pavilion, New York

NYSDEC Site # V00592-8

Index #: B8-0535-98-07

Prepared for:



ROCHESTER GAS AND ELECTRIC CORPORATION



Prepared By:

PARSONS

301 Plainfield Road

Suite 350

Syracuse, NY 13212

Phone: (315) 451-9560

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MARCH 2016

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ATTACHMENT A VALIDATED LABORATORY DATA

Attachment A-1 Validated Laboratory Data For Soil Samples

Attachment A-2 Validated Laboratory Data For Groundwater Samples

SECTION 1

DATA USABILITY SUMMARY

Soil and groundwater samples were collected from the Iberdrola Pavilion site in Pavilion, New York from October 28, 2015 through January 21, 2016. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratory for this project was Chemtech. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 14-16 days for the project samples.

The data packages received from Chemtech were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by sample media in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at Chemtech within one to three days of sampling. All samples were received intact and in good condition at the laboratory.

1.3 LABORATORY ANALYTICAL METHODS

The soil samples that were collected from the site were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), herbicides, metals, and cyanide. The groundwater samples that were collected from the site were analyzed for VOCs, SVOCs, pesticides, PCBs, herbicides, metals, cyanide, amenable cyanide, and free cyanide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.4. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

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- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "J+" - estimated biased high at the value given,
- "J-" - estimated biased low at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

The project samples were analyzed for VOCs using the USEPA SW-846 8260C analytical method. Certain reported results for these samples were qualified as estimated based upon sample surrogate recoveries, laboratory control sample recoveries, instrument calibrations, and field duplicate precision. Certain reported results for these samples were considered unusable and qualified "R" based upon internal samples responses. The reported VOC analytical results were 97.2% to 100% complete (i.e., usable) for the project data. PARCCS requirements were met overall.

1.3.2 Semivolatile Organic Analysis

The project samples were analyzed for SVOCs using the USEPA SW-846 8270D analytical method. Certain reported results for these samples were qualified as estimated based upon laboratory control sample recoveries and instrument calibrations. Certain reported results for these samples were considered unusable and qualified "R" based upon laboratory control sample responses. The reported SVOC analytical results were 98.5% to 100% complete (i.e., usable) for the project data. PARCCS requirements were met overall.

1.3.3 Pesticide, PCB, and Herbicide Organic Analysis

The project samples were analyzed for pesticides, PCBs, and herbicides using the USEPA SW-846 8081B/8082A/8151A analytical methods. Certain reported results for these samples were qualified as estimated based upon instrument calibrations. The reported analytical results for these samples were considered 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

1.3.4 Inorganics Analysis

The project samples were analyzed for metals and cyanide using the USEPA SW-846 6010C/7470A/7471A/9012B analytical methods. Certain reported results for the inorganics samples were qualified as estimated based upon matrix spike recoveries, serial dilutions, laboratory duplicate precision, interference check sample recoveries, and field duplicate precision. The reported inorganic analytical results were considered 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 SOIL

Data review has been completed for data packages generated by Chemtech containing soil samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDGs) G4240 and G4241. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A-1.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, initial and continuing calibrations, internal standard responses, and field duplicate precision as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the high 1,2-dichloroethane-d4 surrogate recovery (QC limit 56-120%R) in samples SB-07(22-24) (151%R), SB-05(8-10) (135%R), SB-03(18-20) (208%R), and SB-01(14-16) (263%R); the high dibromofluoromethane surrogate recovery (QC limit 57-135%R) in sample SB-01(14-16) (145%R); and the low toluene-d8 surrogate recovery (QC limit 67-123%R) in samples SB-13(18-20) (61%R) and SB-09(12-14)RE (62%R). Therefore, positive results for those samples where surrogate recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified “J+” for the affected samples. Results for those samples where surrogate recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified “J-” and nondetected results qualified “UJ” for the affected samples.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable and within QC limits with the exception of the MS/MSD precision results for methyl acetate, 1,1,2,2-tetrachloroethane, and 1,4-dioxane during the spiked analyses of sample SB-07(4-6); and the many MS/MSD precision and accuracy results during the spiked analyses of sample TP-15(3). Validation qualification of the parent samples was not required.

LCS Recoveries

All LCS recoveries associated with project samples were considered acceptable and within QC limits with the exception of the low LCS recoveries for chlorobenzene (71%R; QC limit 80-121%R) associated with samples with lab IDs G4240-08, -12, -14, -15, -16, and -18; and trans-1,3-dichloropropene (76%R; QC limit 77-123%R), 1,1,2-trichloroethane (77%R; QC limit 78-123%R), 2-hexanone (68%R; QC limit 71-134%R), dibromochloromethane (76%R; QC limit 77-121%R), 1,2-dibromoethane (76%R; QC limit 78-123%R), bromoform (72%R; QC limit 73-124%R), and 1,2-dibromo-3-chloropropane (68%R; QC limit 72-127%R) associated with samples with lab IDs G4240-01 through -07, -11RE, -13, -17, -19RE, and -20. Therefore, results for these compounds which were nondetects were considered estimated, possibly biased low, and qualified “UJ” for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of carbon disulfide (24.3%RSD) in the initial calibration associated with all samples in SDG G4240. Therefore, the results for this compound which were nondetects were considered estimated and qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within $\pm 20\%$ with the exception of 1,2,3-trichlorobenzene (22.97%D) and 1,2,4-trichlorobenzene (24.19%D) in the continuing calibration associated with samples with lab IDs G4240-08, -12, -14, -15, -16, and -18; carbon disulfide (-26.34%D) in the

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continuing calibration associated with samples with lab IDs G4240-11, -12RE, -18RE, and -19; and 1,4-dioxane (42.63%D) in the continuing calibration associated with samples with lab IDs G4241-17 and -08. Therefore, the sample results for these compounds which were nondetects were considered estimated and qualified “UJ” for the affected samples.

Internal Standard Responses

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample’s area count within -50% to +100% and retention times within ± 0.5 minutes of the standard) with the exception of all low IS responses in samples SB-03(18-20) and SB-01(14-16); the low IS response for pentafluorobenzene in sample SB-01(14-16)RE; the low IS response for chlorobenzene-d5 in sample SB-07(22-24); and the low IS response for 1,4-dichlorobenzene-d4 in samples SB-05(8-10), -RE, SB-03(18-20), -RE, SB-07(22-24), -RE, SB-01(14-16)RE, SB-09(12-14), and SB-13(18-20)RE. Therefore, positive results associated with these ISs were considered estimated, possibly biased high, and qualified “J+” while nondetected results were considered unusable and qualified “R” for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for cyclohexane (96%RPD), methylcyclohexane (70%RPD), m,p-xylene (71%RPD), o-xylene (72%RPD), and isopropylbenzene (65%RPD) associated with sample TP-17(3) and its field duplicate sample TP-117(3). Therefore, the results for these compounds were considered estimated and qualified “J” for these samples.

Usability

All volatile soil sample results were considered usable following data validation with the exception of certain nondetected results based upon poor internal standard responses.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile soil data presented by Chemtech were 97.2% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-1.

2.1.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries

- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy, LCS recoveries, blank contamination, continuing calibrations, and internal standard responses as discussed below.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the MS/MSD precision results for 4-chloroaniline, 3-nitroaniline, and 3,3-dichlorobenzidine during the spiked analyses of sample SB-07(4-6); and the many MS/MSD precision and accuracy outliers during the spiked analyses of sample TP-15(3). Validation qualification of the parent samples was not required.

LCS Recoveries

All LCS recoveries associated with project samples were considered acceptable and within QC limits with the exception of the low LCS recovery for benzo(b)fluoranthene (55%R; QC limit 56-103%R) associated with all samples in SDG G4240. Therefore, results for this compound which were nondetects were considered estimated and qualified “UJ” for the affected samples.

Blank Contamination

The laboratory method blank associated with all samples contained diethylphthalate below the reporting limit at a concentration of 100 µg/kg. Results for this compound less than the validation action concentration were considered not detected and qualified “U” for the affected samples.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D within ±20% with the exception of indeno(1,2,3-cd)pyrene (27.2%D) in the continuing calibration associated with samples with lab IDs G4240-11, -12, -14, -15, and -17 and all samples in SDG G4241. The sample results for this compound were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

Internal Standard Responses

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample's area count within -50% to +100% and retention times within ± 0.5 minutes of the standard) with the exception of the low IS response for phenanthrene-d10 in sample TP-117(3). This sample was reanalyzed at a dilution yielding compliant IS responses. Therefore, reanalyzed results associated with this IS were reported in the validated laboratory data in Attachment A-1.

Usability

All semivolatile soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The semivolatile soil data presented by Chemtech were 100% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A-1.

2.1.3 Pesticides, PCBs, and Herbicides

The following items were reviewed for compliancy in the pesticide, PCB, and herbicide analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- Initial calibrations
- Verification calibrations
- 4,4'-DDT/endrin breakdown
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC acceptance limits with the exception of the decachlorobiphenyl recovery (QC limit 60-125%R) in PCB samples with lab IDs G4240-01 (53%R, 49%R), -RE (59%R, 58%R), -08 (50%R, 47%R), -RE (47%R, 43%R), -14 (43%R, 41%R), -RE (41%R, 37%R), G4241-01 (48%R, 39%R), -RE (51%R, 42%R), -02 (54%R, 44%R), -RE (56%R, 46%R), -04 (43%R, 36%R), -RE (43%R, 36%R), -05 (54%R), -11 (41%R, 37%R), -RE (40%R, 35%R), -13 (32%R, 30%R), -RE (31%R, 28%R), -17 (58%R, 51%R), and -RE (58%R, 50%R). Validation qualification was not required for these samples.

Usability

All pesticide, PCB, and herbicide results for the soil samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The pesticide, PCB, and herbicide soil data presented by Chemtech were 100% complete with all data considered usable and valid. The validated data are tabulated and presented in Attachment A-1.

2.1.4 Inorganics

The following items were reviewed for compliancy in the inorganics analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, and laboratory preparation blank contamination
- Inductively coupled plasma (ICP) interference check sample (ICS)
- Matrix spike (MS) recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample (LCS) recoveries
- ICP serial dilutions
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of matrix spike recoveries, ICP serial dilutions, and field duplicate precision as discussed below.

Matrix Spike Recoveries

All the MS recoveries for designated spiked project samples were within the 75-125%R QC limit with sample concentrations less than four times the spiking concentration with the exception of the low matrix spike recoveries for antimony (44%R, 43.7%R) and selenium (74.7%R) associated with sample SB-07(4-6); and the low matrix spike recoveries for antimony (32.3%R, 32.5%R), chromium (67%R, 68%R), cobalt (65%R, 65%R), copper (53%R, 54%R), nickel (67%R, 68%R), potassium (72%R, 70%R), silver (56%R, 55%R), vanadium (58%R, 58%R), and sodium (74%R) associated with sample TP-15(3). Therefore, results for these analytes were considered estimated, possibly biased low, with positive results qualified “J-” and nondetected results qualified “UJ” for the affected samples.

ICP Serial Dilution

QC serial dilution results were compliant for all analytes with the exception of the serial dilution results for barium (12%D), calcium (13%D), chromium (13%D), magnesium (11%D), manganese (24%D), and potassium (11%D) associated with sample SB-07(4-6); and aluminum (18%D), barium (25%D), calcium (28%D), chromium (28%D), copper (59%D), magnesium (27%D), and manganese (45%D) associated with sample TP-15(3). Therefore, positive results for these analytes were considered estimated and qualified "J" for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for mercury (0.021 mg/kg and nondetect) associated with sample MW-05(8-10) and its field duplicate MW-105; and the precision for calcium (96%RPD) associated with sample TP-17(3) and its field duplicate TP-117(3). Therefore, the results for these analytes were considered estimated and qualified “J” or “UJ” for the affected samples.

Usability

All inorganics soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The inorganics soil data presented by Chemtech were 100% complete (i.e., usable). The validated soil inorganics laboratory data are tabulated and presented in Attachment A-1.

2.2 GROUNDWATER

Data review has been completed for data packages generated by Chemtech containing analytical results from groundwater samples collected from the site. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical results from these samples were contained within SDGs G4587 and H1201. The validated laboratory data are presented in Attachment A-2.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.2.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and trip blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of initial and continuing calibrations as discussed below.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of cyclohexane (41.1%RSD) in the initial calibration associated with all samples in SDG H1201. Therefore, the results for this compound which were nondetects were considered estimated and qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within $\pm 20\%$ with the exception of carbon tetrachloride (25.27%D) in the continuing calibration associated with samples MW-01, -02, -05, -105, and

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TB-001 that were collected in November 2015. Therefore, the sample results for this compound which were nondetects were considered estimated and qualified “UJ” for the affected samples.

Usability

All volatile groundwater sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile groundwater sample data presented by Chemtech were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-2.

2.2.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy, LCS recoveries, and initial and continuing calibrations as discussed below.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the many MS/MSD precision results and the low MS/MSD accuracy results for 1,2,4,5-tetrachlorobenzene and 2,3,4,6-tetrachlorophenol during the spiked analyses of sample MW-01 collected in November 2015; and the MS/MSD precision results for

4-chloroaniline, di-n-octylphthalate, and indeno(1,2,3-cd)pyrene and the high MS accuracy result for 1,2,4,5-tetrachlorophenol during the spiked analyses of sample MW-01 collected in January 2016. Validation qualification of the parent samples was not required.

LCS Recoveries

All LCS recoveries were within QC limits with the exception of the LCS recoveries for benzaldehyde (9%R; QC limit 10-109%R) and pyrene (62%R; QC limit 67-116%R) associated with samples in SDG H1201. Therefore, the pyrene results which were nondetects were considered estimated and qualified "UJ" for the affected samples. However, the nondetected benzaldehyde results were considered unusable and qualified "R" for these samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of 2,4-dinitrophenol (51.2%RSD) in the initial calibration associated with all samples in SDG H1201. Therefore, the results for this compound which were nondetects were considered estimated and qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within $\pm 20\%$ with the exception of hexachloroethane (35%R) and 2,4-dinitrophenol (97.8%D) in the continuing calibration associated with samples in SDG H1201. Therefore, the hexachloroethane sample results which were nondetects were considered estimated and qualified "UJ" for the affected samples. However, the nondetected 2,4-dinitrophenol results were considered unusable and qualified "R" for the affected samples.

Usability

All semivolatile groundwater sample results were considered usable following data validation with the exception of certain nondetected results based upon poor LCS recoveries and calibration linearity.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The semivolatile groundwater data presented by Chemtech were 98.5% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A-2.

2.2.3 Pesticides, PCBs, and Herbicides

The following items were reviewed for compliancy in the pesticide, PCB, and herbicide analysis:

- Custody documentation
- Holding times
- Surrogate recoveries

- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- Initial calibrations
- Verification calibrations
- 4,4'-DDT/endrin breakdown
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, and verification calibrations as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the 2,4-DCAA surrogate recovery (QC limit 43-172%R) in the November 2015 samples MW-01 (39%R) and -RE (41%R) and in the January 2016 samples MW-02 (183%R), and -RE (184%R). Validation qualification of these samples was not required.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of all low herbicide MS/MSD accuracy results during the spiked analyses of sample MW-01 in November 2015; and the high MS/MSD accuracy results for dichlorprop during the spiked analyses of MW-01 in January 2016. Validation qualification of the parent samples was not required.

Verification Calibrations

All verification calibrations were analyzed at the appropriate frequency with percent differences (%Ds) within $\pm 25\%$ with the exception of beta-BHC (25.6%D, 51.8%D) associated with samples in SDG G4587. Therefore, results for this compound which were nondetects were considered estimated and qualified "UJ" for the affected samples.

Usability

All pesticide, PCB, and herbicide results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The groundwater sample data presented by Chemtech were 100% complete with all data considered usable and valid. The validated data are tabulated and presented in Attachment A-2.

2.2.4 Inorganics

The following items were reviewed for compliancy in the inorganics analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration, and laboratory preparation blank contamination
- Interference check sample (ICS) recoveries
- Matrix spike (MS) recoveries
- Laboratory duplicate precision
- LCS recoveries
- ICP serial dilution
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of ICS recoveries, MS recoveries, laboratory duplicate precision, serial dilutions, and field duplicate precision as discussed below.

ICS Recoveries

All ICS recoveries were considered acceptable and within the 80-120%R QC limit with the exception of the high ICS recovery for selenium (122.4%R) associated with samples in SDG G4587. Therefore, positive selenium results were considered estimated, possibly biased high, and qualified “J+” for the affected samples.

MS Recoveries

All the MS recoveries for designated spiked project samples were within the 75-125%R QC limit with sample concentrations less than four times the spiking concentration with the exception of the high matrix spike recoveries for barium (154%R, 153%R), manganese (149%R, 148%R), and potassium (131%R, 130%R) associated with sample MW-01 collected in

November 2015. Therefore, positive results for these analytes were considered estimated, possibly biased high, and qualified “J+” for this sample.

Laboratory Duplicate Precision

All laboratory duplicate precision results were considered acceptable with the exception of the laboratory duplicate precision for chromium (128%RPD) associated with sample MW-01 collected during January 2016. The positive result for this analyte was considered estimated and qualified “J” for the affected sample.

ICP Serial Dilution

QC serial dilution results were compliant for all analytes with the exception of the serial dilution results for calcium (11%D), manganese (11%D), and potassium (13%D) associated with sample MW-01 collected in November 2015. Therefore, positive results for these analytes were considered estimated and qualified "J" for the affected sample.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for iron (59%RPD) and cyanide (76%RPD) associated with sample MW-05 and its field duplicate MW-105 collected in January 2016. Therefore, results for these analytes were considered estimated and qualified “J” for these samples.

Usability

All inorganic groundwater sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The inorganic groundwater data presented by Chemtech were 100% complete (i.e., usable). The validated inorganic laboratory data are tabulated and presented in Attachment A-2.

ATTACHMENT A

VALIDATED LABORATORY DATA

ATTACHMENT A-1

VALIDATED LABORATORY DATA FOR SOIL SAMPLES

				Dup of MW-05(8-10)-20151028			
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05(8-10)-20151028 G4240-02 8 - 10 ft CTECH G4240 SO 10/28/2015 10:00 2/23/2016	MW-05 MW-105-20151028 G4240-01 8 - 10 ft CTECH G4240 SO 10/28/2015 10:05 2/23/2016	MW-05 MW-05(16-18)-20151028 G4240-03 16 - 18 ft CTECH G4240 SO 10/28/2015 10:15 2/23/2016	SB-01 SB-01(14-16)-20151029 G4240-19 14 - 16 ft CTECH G4240 SO 10/29/2015 17:20 2/23/2016	
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6.1 UJ	6.1 UJ	5.9 UJ	5.9 UJ	
75-34-3	1,1-DICHLOROETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
75-35-4	1,1-DICHLOROETHENE	ug/kg	6.1 U	6.1 U	5.9 U	R	
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	6.1 U	6.1 U	5.9 U	R	
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6.1 U	6.1 U	5.9 U	R	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6.1 UJ	6.1 UJ	5.9 UJ	R	
106-93-4	1,2-DIBROMOETHANE	ug/kg	6.1 UJ	6.1 UJ	5.9 UJ	5.9 UJ	
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6.1 U	6.1 U	5.9 U	R	
107-06-2	1,2-DICHLOROETHANE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6.1 U	6.1 U	5.9 U	R	
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6.1 U	6.1 U	5.9 U	R	
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	120 U	120 U	120 U	120 U	
591-78-6	2-HEXANONE	ug/kg	30.3 UJ	30.3 UJ	29.4 UJ	29.6 UJ	
67-64-1	ACETONE	ug/kg	9.5 J	30.3 U	29.4 U	34.3 J+	
71-43-2	BENZENE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
74-97-5	BROMOCHLOROMETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
75-27-4	BROMODICHLOROMETHANE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
75-25-2	BROMOFORM	ug/kg	6.1 UJ	6.1 UJ	5.9 UJ	5.9 UJ	
74-83-9	BROMOMETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
75-15-0	CARBON DISULFIDE	ug/kg	6.1 UJ	6.1 UJ	5.9 UJ	R	
56-23-5	CARBON TETRACHLORIDE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
108-90-7	CHLOROBENZENE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
75-00-3	CHLOROETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
67-66-3	CHLOROFORM	ug/kg	6.1 U	6.1 U	5.9 U	R	
74-87-3	CHLOROMETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6.1 U	6.1 U	5.9 U	R	
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
110-82-7	CYCLOHEXANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6.1 UJ	6.1 UJ	5.9 UJ	5.9 UJ	
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
100-41-4	ETHYLBENZENE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6.1 U	6.1 U	5.9 U	R	
179601-23-1	M,P-XYLENES	ug/kg	12.1 U	12.1 U	11.7 U	11.8 U	
79-20-9	METHYL ACETATE	ug/kg	6.1 U	6.1 U	5.9 U	R	
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	30.3 U	30.3 U	29.4 U	R	
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	30.3 U	30.3 U	29.4 U	29.6 U	
108-87-2	METHYLCYCLOHEXANE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
75-09-2	METHYLENE CHLORIDE	ug/kg	1.2 J	1.3 J	5.9 U	2.7 J	
95-47-6	O-XYLENE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
100-42-5	STYRENE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
108-88-3	TOLUENE	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6.1 U	6.1 U	5.9 U	R	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6.1 UJ	6.1 UJ	5.9 UJ	5.9 UJ	
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6.1 U	6.1 U	5.9 U	5.9 U	
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6.1 U	6.1 U	5.9 U	R	
75-01-4	VINYL CHLORIDE	ug/kg	6.1 U	6.1 U	5.9 U	R	

				Dup of MW-05(8-10)-20151028			
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05(8-10)-20151028 G4240-02 8 - 10 ft CTECH G4240 SO 10/28/2015 10:00 2/23/2016	MW-05 MW-105-20151028 G4240-01 8 - 10 ft CTECH G4240 SO 10/28/2015 10:05 2/23/2016	MW-05 MW-05(16-18)-20151028 G4240-03 16 - 18 ft CTECH G4240 SO 10/28/2015 10:15 2/23/2016	SB-01 SB-01(14-16)-20151029 G4240-19 14 - 16 ft CTECH G4240 SO 10/29/2015 17:20 2/23/2016	
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
120-83-2	2,4-DICHLOROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	400 U	400 U	390 U	390 U	
51-28-5	2,4-DINITROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
121-14-2	2,4-DINITROTOLUENE	ug/kg	400 U	400 U	390 U	390 U	
606-20-2	2,6-DINITROTOLUENE	ug/kg	400 U	400 U	390 U	390 U	
91-58-7	2-CHLORONAPHTHALENE	ug/kg	400 U	400 U	390 U	390 U	
95-57-8	2-CHLOROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
91-57-6	2-METHYLNAPHTHALENE	ug/kg	400 U	400 U	390 U	390 U	
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	400 U	400 U	390 U	390 U	
88-74-4	2-NITROANILINE	ug/kg	400 U	400 U	390 U	390 U	
88-75-5	2-NITROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	400 U	400 U	390 U	390 U	
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	400 U	400 U	390 U	390 U	
99-09-2	3-NITROANILINE	ug/kg	400 U	400 U	390 U	390 U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	400 U	400 U	390 U	390 U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	400 U	400 U	390 U	390 U	
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	400 U	400 U	390 U	390 U	
106-47-8	4-CHLOROANILINE	ug/kg	400 U	400 U	390 U	390 U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	400 U	400 U	390 U	390 U	
100-01-6	4-NITROANILINE	ug/kg	400 U	400 U	390 U	390 U	
100-02-7	4-NITROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
83-32-9	ACENAPHTHENE	ug/kg	400 U	400 U	390 U	390 U	
208-96-8	ACENAPHTHYLENE	ug/kg	400 U	400 U	390 U	390 U	
98-86-2	ACETOPHENONE	ug/kg	400 U	400 U	390 U	390 U	
120-12-7	ANTHRACENE	ug/kg	400 U	400 U	390 U	390 U	
1912-24-9	ATRAZINE	ug/kg	400 U	400 U	390 U	390 U	
100-52-7	BENZALDEHYDE	ug/kg	400 U	400 U	390 U	390 U	
56-55-3	BENZO(A)ANTHRACENE	ug/kg	400 U	400 U	390 U	390 U	
50-32-8	BENZO(A)PYRENE	ug/kg	400 U	400 U	390 U	390 U	
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	400 UJ	400 UJ	390 UJ	390 UJ	
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	400 U	400 U	390 U	390 U	
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	400 U	400 U	390 U	390 U	
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	400 U	400 U	390 U	390 U	
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	400 U	400 U	390 U	390 U	
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	400 U	400 U	390 U	390 U	
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	400 U	400 U	390 U	390 U	
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	400 U	400 U	390 U	390 U	
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	100 J	400 U	390 U	390 U	
105-60-2	CAPROLACTAM	ug/kg	400 U	400 U	390 U	390 U	
86-74-8	CARBAZOLE	ug/kg	400 U	400 U	390 U	390 U	
218-01-9	CHRYSENE	ug/kg	400 U	400 U	390 U	390 U	
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	400 U	400 U	390 U	390 U	
132-64-9	DIBENZOFURAN	ug/kg	400 U	400 U	390 U	390 U	
84-66-2	DIETHYL PHTHALATE	ug/kg	400 U	400 U	390 U	390 U	
131-11-3	DIMETHYL PHTHALATE	ug/kg	490	510	550	550	
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	400 U	400 U	390 U	390 U	
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	400 U	400 U	390 U	390 U	
206-44-0	FLUORANTHENE	ug/kg	400 U	400 U	390 U	390 U	
86-73-7	FLUORENE	ug/kg	400 U	400 U	390 U	390 U	
118-74-1	HEXACHLOROBENZENE	ug/kg	400 U	400 U	390 U	390 U	
87-68-3	HEXACHLOROBUTADIENE	ug/kg	400 U	400 U	390 U	390 U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	400 U	400 U	390 U	390 U	
67-72-1	HEXACHLOROETHANE	ug/kg	400 U	400 U	390 U	390 U	
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	400 UJ	400 UJ	390 UJ	390 UJ	
78-59-1	ISOPHORONE	ug/kg	400 U	400 U	390 U	390 U	
91-20-3	NAPHTHALENE	ug/kg	400 U	400 U	390 U	390 U	
98-95-3	NITROBENZENE	ug/kg	400 U	400 U	390 U	390 U	
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	400 U	400 U	390 U	390 U	
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	400 U	400 U	390 U	390 U	
87-86-5	PENTACHLOROPHENOL	ug/kg	400 U	400 U	390 U	390 U	
85-01-8	PHENANTHRENE	ug/kg	400 U	400 U	390 U	390 U	
108-95-2	PHENOL	ug/kg	400 U	400 U	390 U	390 U	
129-00-0	PYRENE	ug/kg	400 U	400 U	390 U	390 U	
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	400 U	400 U	390 U	390 U	

				Dup of MW-05(8-10)-20151028			
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05(8-10)-20151028 G4240-02 8 - 10 ft CTECH G4240 SO 10/28/2015 10:00 2/23/2016	MW-05 MW-105-20151028 G4240-01 8 - 10 ft CTECH G4240 SO 10/28/2015 10:05 2/23/2016	MW-05 MW-05(16-18)-20151028 G4240-03 16 - 18 ft CTECH G4240 SO 10/28/2015 10:15 2/23/2016	SB-01 SB-01(14-16)-20151029 G4240-19 14 - 16 ft CTECH G4240 SO 10/29/2015 17:20 2/23/2016	
CAS NO.	COMPOUND	UNITS:					
	PESTICIDES						
309-00-2	ALDRIN	ug/kg	2.1 U	2.1 U			
319-84-6	ALPHA BHC	ug/kg	2.1 U	2.1 U			
959-98-8	ALPHA ENDOSULFAN	ug/kg	2.1 U	2.1 U			
5103-71-9	ALPHA-CHLORDANE	ug/kg	2.1 U	2.1 U			
319-85-7	BETA BHC	ug/kg	2.1 U	2.1 U			
33213-65-9	BETA ENDOSULFAN	ug/kg	2.1 U	2.1 U			
5103-74-2	BETA-CHLORDANE	ug/kg	2.1 U	2.1 U			
319-86-8	DELTA BHC	ug/kg	2.1 U	2.1 U			
60-57-1	DIELDRIN	ug/kg	2.1 U	2.1 U			
1031-07-8	ENDOSULFAN SULFATE	ug/kg	2.1 U	2.1 U			
72-20-8	ENDRIN	ug/kg	2.1 U	2.1 U			
7421-93-4	ENDRIN ALDEHYDE	ug/kg	2.1 U	2.1 U			
53494-70-5	ENDRIN KETONE	ug/kg	2.1 U	2.1 U			
58-89-9	GAMMA BHC (LINDANE)	ug/kg	2.1 U	2.1 U			
76-44-8	HEPTACHLOR	ug/kg	2.1 U	2.1 U			
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg	2.1 U	2.1 U			
72-43-5	METHOXYCHLOR	ug/kg	2.1 U	2.1 U			
72-54-8	P,P'-DDD	ug/kg	2.1 U	2.1 U			
72-55-9	P,P'-DDE	ug/kg	2.1 U	2.1 U			
50-29-3	P,P'-DDT	ug/kg	2.1 U	2.1 U			
8001-35-2	TOXAPHENE	ug/kg	20.5 U	20.6 U			
	PCBs						
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/kg	20.5 U	20.6 U			
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/kg	20.5 U	20.6 U			
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/kg	20.5 U	20.6 U			
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/kg	20.5 U	20.6 U			
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/kg	20.5 U	20.6 U			
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/kg	20.5 U	20.6 U			
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/kg	20.5 U	20.6 U			
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/kg	20.5 U	20.6 U			
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/kg	20.5 U	20.6 U			
	HERBICIDES						
94-75-7	2,4-D	ug/kg	80.9 U	81.4 U			
93-72-1	SILVEX (2,4,5-TP)	ug/kg	80.9 U	81.4 U			
1918-00-9	DICAMBA	ug/kg	80.9 U	81.4 U			
120-36-5	DICHLOROPROP	ug/kg	80.9 U	81.4 U			
88-85-7	DINoseb	ug/kg	80.9 U	81.4 U			
93-76-5	2,4,5-T	ug/kg	80.9 U	81.4 U			
94-82-6	2,4 DB	ug/kg	80.9 U	81.4 U			
	INORGANICS						
7429-90-5	ALUMINUM	mg/kg	3370	3550	6100	2390	
7440-36-0	ANTIMONY	mg/kg	2.43 U	2.52 U	2.52 U	2.46 U	
7440-38-2	ARSENIC	mg/kg	3.5	3.91	4.31	3.22	
7440-39-3	BARIUM	mg/kg	18.4	16.9	53.5	20.9	
7440-41-7	BERYLLIUM	mg/kg	0.238 J	0.243 J	0.379	0.184 J	
7440-43-9	CADMIUM	mg/kg	0.234 J	0.252 J	0.318	0.178 J	
7440-70-2	CALCIUM	mg/kg	39100	34500	54000	50800	
7440-47-3	CHROMIUM, TOTAL	mg/kg	4.87	5.13	9.02	7.3	
7440-48-4	COBALT	mg/kg	4.65	5.29	6.51	3.26	
7440-50-8	COPPER	mg/kg	14	13.9	12.1	7.8	
7439-89-6	IRON	mg/kg	9430	9360	14500	8390	
7439-92-1	LEAD	mg/kg	6.67	6.31	7.13	3.86	
7439-95-4	MAGNESIUM	mg/kg	10400	10600	14500	17500	
7439-96-5	MANGANESE	mg/kg	217	226	315	247	
7439-97-6	MERCURY	mg/kg	0.016 UJ	0.021 J	0.017	0.016 U	
7440-02-0	NICKEL	mg/kg	12.7	13.7	17.9	10.1	
7440-09-7	POTASSIUM	mg/kg	542	580	1260	500	
7782-49-2	SELENIUM	mg/kg	0.971 U	1.01 U	1.01 U	0.983 U	
7440-22-4	SILVER	mg/kg	0.596	0.609	0.964	0.56	
7440-23-5	SODIUM	mg/kg	130	132	184	125	
7440-28-0	THALLIUM	mg/kg	1.94 U	2.02 U	2.02 U	1.97 U	
7440-62-2	VANADIUM	mg/kg	7.67	8.29	11.8	7.16	
7440-66-6	ZINC	mg/kg	54.7	55.9	52.7	41.2	
57-12-5	CYANIDE	mg/kg	0.288 U	0.301 U	0.276 U	0.274 U	

				Dup of MW-05(8-10)-20151028			
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID:	MW-05	MW-05	MW-05	SB-01	
		Sample ID:	MW-05(8-10)-20151028	MW-105-20151028	MW-05(16-18)-20151028	SB-01(14-16)-20151029	
		Lab Sample Id:	G4240-02	G4240-01	G4240-03	G4240-19	
		Depth:	8 - 10 ft	8 - 10 ft	16 - 18 ft	14 - 16 ft	
		Source:	CTECH	CTECH	CTECH	CTECH	
		SDG:	G4240	G4240	G4240	G4240	
		Matrix:	SO	SO	SO	SO	
		Sampled:	10/28/2015 10:00	10/28/2015 10:05	10/28/2015 10:15	10/29/2015 17:20	
Validated:	2/23/2016	2/23/2016	2/23/2016	2/23/2016			
CAS NO.	COMPOUND	UNITS:					
	VOLATILE TICs						
UNKNOWN1.	unknown1.38	ug/kg	6.1 J				
UNKNOWN1.	unknown1.61	ug/kg					
UNKNOWN3.	unknown3.11	ug/kg					
103-65-1	N-PROPYLBENZENE	ug/kg					
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg					
135-98-8	SEC-BUTYLBENZENE	ug/kg					
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg					
17301-23-4	2,6-Dimethylundecane	ug/kg					
17301-28-9	3,6-Dimethylundecane	ug/kg					
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg					
UNKNOWN14	unknown14.78	ug/kg					
UNKNOWN15	unknown15.22	ug/kg					
62108-24-1	2,6,6-Trimethyldecane	ug/kg					
62108-25-2	2,6,7-Trimethyldecane	ug/kg					
UNKNOWN15	unknown15.62	ug/kg					
UNKNOWN16	unknown16.14	ug/kg					
5617-41-4	Heptylcyclohexane	ug/kg					
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg					

				Dup of MW-05(8-10)-20151028			
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05(8-10)-20151028 G4240-02 8 - 10 ft CTECH G4240 SO 10/28/2015 10:00 2/23/2016	MW-05 MW-105-20151028 G4240-01 8 - 10 ft CTECH G4240 SO 10/28/2015 10:05 2/23/2016	MW-05 MW-05(16-18)-20151028 G4240-03 16 - 18 ft CTECH G4240 SO 10/28/2015 10:15 2/23/2016	SB-01 SB-01(14-16)-20151029 G4240-19 14 - 16 ft CTECH G4240 SO 10/29/2015 17:20 2/23/2016	
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILE TICs						
110-54-3	N-HEXANE	ug/kg			430 JN		
142-82-5	N-HEPTANE	ug/kg					
123-42-2	Diacetone Alcohol	ug/kg	R	R	R		R
1000123-86-3	Tranlylcypromine-propionyl	ug/kg					
UNKNOWN6.	unknown6.64	ug/kg	R	R			R
UNKNOWN6.	unknown6.65	ug/kg			3900 J		
1795-15-9	Octyl Cyclohexane	ug/kg					
50871-03-9	1-Decene, 3,4-dimethyl-	ug/kg					
5617-41-4	Heptylcyclohexane	ug/kg					
629-50-5	N-Tridecane	ug/kg					
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg					
575-43-9	1,6-Dimethylnaphthalene	ug/kg					
UNKNOWN10.	unknown10.19	ug/kg					
UNKNOWN10.	unknown10.49	ug/kg					
112-95-8	N-Eicosane	ug/kg	95.2 JN	190 JN			83.6 JN
1921-70-6	Norphytane	ug/kg					
3892-00-0	2,6,10-Trimethylpentadecane	ug/kg					
4443-55-4	Eicosyl Cyclohexane	ug/kg					
544-76-3	N-Hexadecane	ug/kg					
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg					
55045-08-4	2-Methyl-6-Propyldodecane	ug/kg		99.5 JN			
629-50-5	N-Tridecane	ug/kg					
629-59-4	N-Tetradecane	ug/kg					
629-62-9	Pentadecane	ug/kg	170 JN				
629-78-7	Heptadecane	ug/kg					
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg					
13187-99-0	2-Bromo Dodecane	ug/kg	85.2 JN				
295-17-0	Cyclotetradecane	ug/kg					
295-65-8	Cyclohexadecane	ug/kg					
35953-53-8	2-Tetradecene, (E)-	ug/kg		150 JN			
57-10-3	HEXADECANOIC ACID	ug/kg	500 JN	350 JN	330 JN		260 JN
629-78-7	Heptadecane	ug/kg					
638-53-9	Tridecanoic Acid	ug/kg					
74685-29-3	(E)-9-Eicosene	ug/kg		120 JN			
1002-84-2	Pentadecanoic Acid	ug/kg		180 JN			
111-06-8	Butyl Hexadecanoate	ug/kg		120 JN			
112-95-8	N-Eicosane	ug/kg					
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg					
334-48-5	Decanoic Acid	ug/kg					
544-63-8	Tetradecanoic Acid	ug/kg			110 JN		
57-11-4	Octadecanoic Acid	ug/kg	250 JN				
629-01-6	Octanamide	ug/kg					
629-54-9	Hexadecanamide	ug/kg					
638-58-4	Tetradecanamide	ug/kg					
646-31-1	N-Tetracosane	ug/kg		93.8 JN			
1000282-97-3	Heptafluorobutanoic Acid, Heptadecy	ug/kg					
123-95-5	N-Butyl Stearate	ug/kg		93.4 JN			
1454-84-8	Nonadecanol	ug/kg					
18435-45-5	1-Nonadecene	ug/kg					490 JN
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg			300 JN		
295-17-0	Cyclotetradecane	ug/kg					
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg					
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg					
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg					
74685-29-3	(E)-9-Eicosene	ug/kg					
74685-30-6	5-Eicosene (E)-	ug/kg	420 JN	370 JN			
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg	90 JN				
62016-79-9	1-Chloroheptacosane	ug/kg	81.6 JN				
7683-64-9	Squalene	ug/kg					
112-92-5	1-Octadecanol	ug/kg					
1599-67-3	1-Docosene	ug/kg					
18435-45-5	1-Nonadecene	ug/kg					
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg					
6971-40-0	17-Pentatriacontene	ug/kg	170 JN				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg					
295-48-7	Cyclopentadecaneáááááááá	ug/kg					130 JN

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-01 SB-01(18-20)-20151029 G4240-20 18 - 20 ft CTECH G4240 SO 10/29/2015 17:30 2/23/2016	SB-02 SB-02(2-4)-20151029 G4240-16 2 - 4 ft CTECH G4240 SO 10/29/2015 14:45 2/23/2016	SB-03 SB-03(16-18)-20151029 G4240-17 16 - 18 ft CTECH G4240 SO 10/29/2015 16:05 2/23/2016	SB-03 SB-03(18-20)-20151029 G4240-18 18 - 20 ft CTECH G4240 SO 10/29/2015 16:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	5.8 U	6 U	6 U	6 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	5.8 U	6 U	6 U	R
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	5.8 U	6 U	6 U	6 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	5.8 UJ	6 U	6 UJ	6 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	5.8 U	6 U	6 U	6 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	5.8 U	6 U	6 U	6 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	5.8 U	6 UJ	6 U	R
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	5.8 U	6 UJ	6 U	R
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	5.8 UJ	6 U	6 UJ	R
106-93-4	1,2-DIBROMOETHANE	ug/kg	5.8 UJ	6 U	6 UJ	6 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	5.8 U	6 U	6 U	R
107-06-2	1,2-DICHLOROETHANE	ug/kg	5.8 U	6 U	6 U	6 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	5.8 U	6 U	6 U	6 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	5.8 U	6 U	6 U	R
106-46-7	1,4-DICHLOROBENZENE	ug/kg	5.8 U	6 U	6 U	R
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	120 U	120 U	120 U	120 U
591-78-6	2-HEXANONE	ug/kg	29.2 UJ	30 U	29.8 UJ	29.8 U
67-64-1	ACETONE	ug/kg	29.2 U	16.7 J	29.8 U	13.7 J
71-43-2	BENZENE	ug/kg	5.8 U	6 U	6 U	6 U
74-97-5	BROMOCHLOROMETHANE	ug/kg	5.8 U	6 U	6 U	6 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	5.8 U	6 U	6 U	6 U
75-25-2	BROMOFORM	ug/kg	5.8 UJ	6 U	6 UJ	6 U
74-83-9	BROMOMETHANE	ug/kg	5.8 U	6 U	6 U	6 U
75-15-0	CARBON DISULFIDE	ug/kg	5.8 UJ	6 UJ	6 UJ	6 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	5.8 U	6 U	6 U	6 U
108-90-7	CHLOROBENZENE	ug/kg	5.8 U	6 UJ	6 U	6 U
75-00-3	CHLOROETHANE	ug/kg	5.8 U	6 U	6 U	6 U
67-66-3	CHLOROFORM	ug/kg	5.8 U	6 U	6 U	6 U
74-87-3	CHLOROMETHANE	ug/kg	5.8 U	6 U	6 U	6 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	5.8 U	6 U	6 U	6 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	5.8 U	6 U	6 U	6 U
110-82-7	CYCLOHEXANE	ug/kg	5.8 U	6 U	6 U	6 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	5.8 UJ	6 U	6 UJ	6 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	5.8 U	6 U	6 U	6 U
100-41-4	ETHYLBENZENE	ug/kg	5.8 U	6 U	6 U	6 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	5.8 U	6 U	6 U	R
179601-23-1	M,P-XYLENES	ug/kg	11.7 U	12 U	11.9 U	11.9 U
79-20-9	METHYL ACETATE	ug/kg	5.8 U	6 U	6 U	6 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	29.2 U	30 U	29.8 U	29.8 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	29.2 U	30 U	29.8 U	29.8 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	5.8 U	6 U	6 U	6 U
75-09-2	METHYLENE CHLORIDE	ug/kg	1.7 J	6 U	2.9 J	6 U
95-47-6	O-XYLENE	ug/kg	5.8 U	6 U	6 U	6 U
100-42-5	STYRENE	ug/kg	5.8 U	6 U	6 U	6 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	5.8 U	6 U	6 U	6 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	5.8 U	6 U	6 U	6 U
108-88-3	TOLUENE	ug/kg	5.8 U	6 U	6 U	6 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	5.8 U	6 U	6 U	6 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	5.8 UJ	6 U	6 UJ	6 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	5.8 U	6 U	6 U	6 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	5.8 U	6 U	6 U	6 U
75-01-4	VINYL CHLORIDE	ug/kg	5.8 U	6 U	6 U	6 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-01 SB-01(18-20)-20151029 G4240-20 18 - 20 ft CTECH G4240 SO 10/29/2015 17:30 2/23/2016	SB-02 SB-02(2-4)-20151029 G4240-16 2 - 4 ft CTECH G4240 SO 10/29/2015 14:45 2/23/2016	SB-03 SB-03(16-18)-20151029 G4240-17 16 - 18 ft CTECH G4240 SO 10/29/2015 16:05 2/23/2016	SB-03 SB-03(18-20)-20151029 G4240-18 18 - 20 ft CTECH G4240 SO 10/29/2015 16:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	380 U	390 U	390 U	390 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	380 U	390 U	390 U	390 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	380 U	390 U	390 U	390 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	380 U	390 U	390 U	390 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	380 U	390 U	390 U	390 U
51-28-5	2,4-DINITROPHENOL	ug/kg	380 U	390 U	390 U	390 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	380 U	390 U	390 U	390 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	380 U	390 U	390 U	390 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	380 U	390 U	390 U	390 U
95-57-8	2-CHLOROPHENOL	ug/kg	380 U	390 U	390 U	390 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	380 U	390 U	390 U	390 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	380 U	390 U	390 U	390 U
88-74-4	2-NITROANILINE	ug/kg	380 U	390 U	390 U	390 U
88-75-5	2-NITROPHENOL	ug/kg	380 U	390 U	390 U	390 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	380 U	390 U	390 U	390 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	380 U	390 U	390 U	390 U
99-09-2	3-NITROANILINE	ug/kg	380 U	390 U	390 U	390 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	380 U	390 U	390 U	390 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	380 U	390 U	390 U	390 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	380 U	390 U	390 U	390 U
106-47-8	4-CHLOROANILINE	ug/kg	380 U	390 U	390 U	390 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	380 U	390 U	390 U	390 U
100-01-6	4-NITROANILINE	ug/kg	380 U	390 U	390 U	390 U
100-02-7	4-NITROPHENOL	ug/kg	380 U	390 U	390 U	390 U
83-32-9	ACENAPHTHENE	ug/kg	380 U	390 U	390 U	390 U
208-96-8	ACENAPHTHYLENE	ug/kg	380 U	390 U	390 U	390 U
98-86-2	ACETOPHENONE	ug/kg	380 U	390 U	390 U	390 U
120-12-7	ANTHRACENE	ug/kg	380 U	390 U	390 U	390 U
1912-24-9	ATRAZINE	ug/kg	380 U	390 U	390 U	390 U
100-52-7	BENZALDEHYDE	ug/kg	380 U	390 U	390 U	390 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	380 U	390 U	390 U	390 U
50-32-8	BENZO(A)PYRENE	ug/kg	380 U	390 U	390 U	390 U
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	380 UJ	390 UJ	390 UJ	390 UJ
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	380 U	390 U	390 U	390 U
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	380 U	390 U	390 U	390 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	380 U	390 U	390 U	390 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	380 U	390 U	390 U	390 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	380 U	390 U	390 U	390 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	380 U	390 U	390 U	390 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	380 U	390 U	390 U	390 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	380 U	390 U	390 U	390 U
105-60-2	CAPROLACTAM	ug/kg	380 U	390 U	390 U	390 U
86-74-8	CARBAZOLE	ug/kg	380 U	390 U	390 U	390 U
218-01-9	CHRYSENE	ug/kg	380 U	390 U	390 U	390 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	380 U	390 U	390 U	390 U
132-64-9	DIBENZOFURAN	ug/kg	380 U	390 U	390 U	390 U
84-66-2	DIETHYL PHTHALATE	ug/kg	380 U	390 U	390 U	390 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	540	510	610	480
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	380 U	390 U	390 U	390 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	380 U	390 U	390 U	390 U
206-44-0	FLUORANTHENE	ug/kg	380 U	390 U	390 U	390 U
86-73-7	FLUORENE	ug/kg	380 U	390 U	390 U	390 U
118-74-1	HEXACHLOROBENZENE	ug/kg	380 U	390 U	390 U	390 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	380 U	390 U	390 U	390 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	380 U	390 U	390 U	390 U
67-72-1	HEXACHLOROETHANE	ug/kg	380 U	390 U	390 U	390 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	380 UJ	390 UJ	390 UJ	390 UJ
78-59-1	ISOPHORONE	ug/g	380 U	390 U	390 U	390 U
91-20-3	NAPHTHALENE	ug/g	380 U	390 U	390 U	390 U
98-95-3	NITROBENZENE	ug/kg	380 U	390 U	390 U	390 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	380 U	390 U	390 U	390 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	380 U	390 U	390 U	390 U
87-86-5	PENTACHLOROPHENOL	ug/kg	380 U	390 U	390 U	390 U
85-01-8	PHENANTHRENE	ug/kg	380 U	390 U	390 U	390 U
108-95-2	PHENOL	ug/kg	380 U	390 U	390 U	390 U
129-00-0	PYRENE	ug/kg	380 U	390 U	390 U	390 U
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	380 U	390 U	390 U	390 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-01 SB-01(18-20)-20151029 G4240-20 18 - 20 ft CTECH G4240 SO 10/29/2015 17:30 2/23/2016	SB-02 SB-02(2-4)-20151029 G4240-16 2 - 4 ft CTECH G4240 SO 10/29/2015 14:45 2/23/2016	SB-03 SB-03(16-18)-20151029 G4240-17 16 - 18 ft CTECH G4240 SO 10/29/2015 16:05 2/23/2016	SB-03 SB-03(18-20)-20151029 G4240-18 18 - 20 ft CTECH G4240 SO 10/29/2015 16:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/kg		2 U		
319-84-6	ALPHA BHC	ug/kg		2 U		
959-98-8	ALPHA ENDOSULFAN	ug/kg		2 U		
5103-71-9	ALPHA-CHLORDANE	ug/kg		2 U		
319-85-7	BETA BHC	ug/kg		2 U		
33213-65-9	BETA ENDOSULFAN	ug/kg		2 U		
5103-74-2	BETA-CHLORDANE	ug/kg		2 U		
319-86-8	DELTA BHC	ug/kg		2 U		
60-57-1	DIELDRIN	ug/kg		2 U		
1031-07-8	ENDOSULFAN SULFATE	ug/kg		2 U		
72-20-8	ENDRIN	ug/kg		2 U		
7421-93-4	ENDRIN ALDEHYDE	ug/kg		2 U		
53494-70-5	ENDRIN KETONE	ug/kg		2 U		
58-89-9	GAMMA BHC (LINDANE)	ug/kg		2 U		
76-44-8	HEPTACHLOR	ug/kg		2 U		
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg		2 U		
72-43-5	METHOXYCHLOR	ug/kg		2 U		
72-54-8	P,P'-DDD	ug/kg		2 U		
72-55-9	P,P'-DDE	ug/kg		2 U		
50-29-3	P,P'-DDT	ug/kg		2 U		
8001-35-2	TOXAPHENE	ug/kg		20.4 U		
	PCBs					
12674-11-2	PCB-1016 (AROCOR 1016)	ug/kg		20.4 U		
11104-28-2	PCB-1221 (AROCOR 1221)	ug/kg		20.4 U		
11141-16-5	PCB-1232 (AROCOR 1232)	ug/kg		20.4 U		
53469-21-9	PCB-1242 (AROCOR 1242)	ug/kg		20.4 U		
12672-29-6	PCB-1248 (AROCOR 1248)	ug/kg		20.4 U		
11097-69-1	PCB-1254 (AROCOR 1254)	ug/kg		20.4 U		
11096-82-5	PCB-1260 (AROCOR 1260)	ug/kg		20.4 U		
37324-23-5	PCB-1262 (AROCOR 1262)	ug/kg		20.4 U		
11100-14-4	PCB-1268 (AROCOR 1268)	ug/kg		20.4 U		
	HERBICIDES					
94-75-7	2,4-D	ug/kg		80.3 U		
93-72-1	SILVEX (2,4,5-TP)	ug/kg		80.3 U		
1918-00-9	DICAMBA	ug/kg		80.3 U		
120-36-5	DICHLOROPROP	ug/kg		80.3 U		
88-85-7	DINOSIB	ug/kg		80.3 U		
93-76-5	2,4,5-T	ug/kg		80.3 U		
94-82-6	2,4 DB	ug/kg		80.3 U		
	INORGANICS					
7429-90-5	ALUMINUM	mg/kg	1650	2730	3090	1940
7440-36-0	ANTIMONY	mg/kg	2.45 U	2.46 U	2.48 U	2.57 U
7440-38-2	ARSENIC	mg/kg	2.28	3.08	3.8	2.74
7440-39-3	BARIUM	mg/kg	14	15.4	22.4	16
7440-41-7	BERYLLIUM	mg/kg	0.13 J	0.211 J	0.254 J	0.156 J
7440-43-9	CADMIUM	mg/kg	0.141 J	0.102 J	0.267 J	0.206 J
7440-70-2	CALCIUM	mg/kg	37400	9750	43900	45700
7440-47-3	CHROMIUM, TOTAL	mg/kg	3.02	4.49	5.32	3.64
7440-48-4	COBALT	mg/kg	2.27	3.46	3.75	2.83
7440-50-8	COPPER	mg/kg	5.76	10.89	10.57	8.23
7439-89-6	IRON	mg/kg	6280	9280	12300	7410
7439-92-1	LEAD	mg/kg	3.28	5.73	13.2	4.87
7439-95-4	MAGNESIUM	mg/kg	13500	4850	13700	16700
7439-96-5	MANGANESE	mg/kg	192	271	548	237
7439-97-6	MERCURY	mg/kg	0.015 U	0.008 J	0.011 J	0.016 U
7440-02-0	NICKEL	mg/kg	5.39	10.69	10.61	7.2
7440-09-7	POTASSIUM	mg/kg	342	415	566	400
7782-49-2	SELENIUM	mg/kg	0.981 U	0.983 U	0.992 U	1.03 U
7440-22-4	SILVER	mg/kg	0.387 J	0.608	0.833	0.461 J
7440-23-5	SODIUM	mg/kg	104	156	109	114
7440-28-0	THALLIUM	mg/kg	1.96 U	1.97 U	1.98 U	2.06 U
7440-62-2	VANADIUM	mg/kg	6.23	7.27	7.54	7.15
7440-66-6	ZINC	mg/kg	37.9	52.8	43.9	40.9
57-12-5	CYANIDE	mg/kg	0.282 U	0.283 U	0.286 U	0.294 U

Iberdrola Pavilion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-01 SB-01(18-20)-20151029 G4240-20 18 - 20 ft CTECH G4240 SO 10/29/2015 17:30 2/23/2016	SB-02 SB-02(2-4)-20151029 G4240-16 2 - 4 ft CTECH G4240 SO 10/29/2015 14:45 2/23/2016	SB-03 SB-03(16-18)-20151029 G4240-17 16 - 18 ft CTECH G4240 SO 10/29/2015 16:05 2/23/2016	SB-03 SB-03(18-20)-20151029 G4240-18 18 - 20 ft CTECH G4240 SO 10/29/2015 16:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILE TICs					
UNKNOWN1.	unknown1.38	ug/kg				6.1 J
UNKNOWN1.	unknown1.61	ug/kg				8.7 J
UNKNOWN3.	unknown3.11	ug/kg				
103-65-1	N-PROPYLBENZENE	ug/kg				
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg				
135-98-8	SEC-BUTYLBENZENE	ug/kg				
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg				
17301-23-4	2,6-Dimethylundecane	ug/kg				
17301-28-9	3,6-Dimethylundecane	ug/kg				
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg				
UNKNOWN14	unknown14.78	ug/kg				
UNKNOWN15	unknown15.22	ug/kg				
62108-24-1	2,6,6-Trimethyldecane	ug/kg				
62108-25-2	2,6,7-Trimethyldecane	ug/kg				
UNKNOWN15	unknown15.62	ug/kg				
UNKNOWN16	unknown16.14	ug/kg				
5617-41-4	Heptylcyclohexane	ug/kg				
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-01 SB-01(18-20)-20151029 G4240-20 18 - 20 ft CTECH G4240 SO 10/29/2015 17:30 2/23/2016	SB-02 SB-02(2-4)-20151029 G4240-16 2 - 4 ft CTECH G4240 SO 10/29/2015 14:45 2/23/2016	SB-03 SB-03(16-18)-20151029 G4240-17 16 - 18 ft CTECH G4240 SO 10/29/2015 16:05 2/23/2016	SB-03 SB-03(18-20)-20151029 G4240-18 18 - 20 ft CTECH G4240 SO 10/29/2015 16:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
110-54-3	N-HEXANE	ug/kg				
142-82-5	N-HEPTANE	ug/kg				
123-42-2	Diacetone Alcohol	ug/kg	R	R	R	R
1000123-86-3	Tranlylcypromine-propionyl	ug/kg				
UNKNOWN6.	unknown6.64	ug/kg	R	R		R
UNKNOWN6.	unknown6.65	ug/kg			4200 J	
1795-15-9	Octyl Cyclohexane	ug/kg				
50871-03-9	1-Decene, 3,4-dimethyl-	ug/kg				
5617-41-4	Heptylcyclohexane	ug/kg				
629-50-5	N-Tridecane	ug/kg				
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg				
575-43-9	1,6-Dimethylnaphthalene	ug/kg				
UNKNOWN10	unknown10.19	ug/kg				
UNKNOWN10	unknown10.49	ug/kg				
112-95-8	N-Eicosane	ug/kg	110 JN		91.2 JN	
1921-70-6	Norphytane	ug/kg				
3892-00-0	2,6,10-Trimethylpentadecane	ug/kg				
4443-55-4	Eicosyl Cyclohexane	ug/kg				
544-76-3	N-Hexadecane	ug/kg				
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg				
55045-08-4	2-Methyl-6-Propyldodecane	ug/kg				
629-50-5	N-Tridecane	ug/kg				
629-59-4	N-Tetradecane	ug/kg				
629-62-9	Pentadecane	ug/kg				
629-78-7	Heptadecane	ug/kg				95.5 JN
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg				
13187-99-0	2-Bromo Dodecane	ug/kg				
295-17-0	Cyclotetradecane	ug/kg				
295-65-8	Cyclohexadecane	ug/kg				
35953-53-8	2-Tetradecene, (E)-	ug/kg				
57-10-3	HEXADECANOIC ACID	ug/kg	280 JN		280 JN	200 JN
629-78-7	Heptadecane	ug/kg				
638-53-9	Tridecanoic Acid	ug/kg		300 JN		
74685-29-3	(E)-9-Eicosene	ug/kg				
1002-84-2	Pentadecanoic Acid	ug/kg				
111-06-8	Butyl Hexadecanoate	ug/kg				
112-95-8	N-Eicosane	ug/kg				
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg				
334-48-5	Decanoic Acid	ug/kg	120 JN			
544-63-8	Tetradecanoic Acid	ug/kg				
57-11-4	Octadecanoic Acid	ug/kg			210 JN	
629-01-6	Octanamide	ug/kg			100 JN	
629-54-9	Hexadecanamide	ug/kg	110 JN			
638-58-4	Tetradecanamide	ug/kg				
646-31-1	N-Tetracosane	ug/kg				
1000282-97-3	Heptafluorobutanoic Acid, Heptadecy	ug/kg				
123-95-5	N-Butyl Stearate	ug/kg				
1454-84-8	Nonadecanol	ug/kg				370 JN
18435-45-5	1-Nonadecene	ug/kg				
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg				
295-17-0	Cyclotetradecane	ug/kg				
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg				
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg	350 JN			
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg			260 JN	
74685-29-3	(E)-9-Eicosene	ug/kg				
74685-30-6	5-Eicosene (E)-	ug/kg		430 JN		
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg				
62016-79-9	1-Chloroheptacosane	ug/kg				
7683-64-9	Squalene	ug/kg				
112-92-5	1-Octadecanol	ug/kg				
1599-67-3	1-Docosene	ug/kg		130 JN		93.9 JN
18435-45-5	1-Nonadecene	ug/kg				
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg				
6971-40-0	17-Pentatriacontene	ug/kg				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg				
295-48-7	Cyclopentadecaneáááááááá	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-04 SB-04(2-4)-20151029 G4240-14 2 - 4 ft CTECH G4240 SO 10/29/2015 14:10 2/23/2016	SB-04 SB-04(18-20)-20151029 G4240-15 18 - 20 ft CTECH G4240 SO 10/29/2015 14:15 2/23/2016	SB-05 SB-05(8-10)-20151029 G4240-12 8 - 10 ft CTECH G4240 SO 10/29/2015 13:05 2/23/2016	SB-05 SB-05(18-20)-20151029 G4240-13 18 - 20 ft CTECH G4240 SO 10/29/2015 13:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6.5 U	6 U	R	6 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6.5 U	6 U	6.7 U	6 UJ
75-34-3	1,1-DICHLOROETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6.5 U	6 U	6.7 U	6 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	6.5 UJ	6 UJ	R	6 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6.5 UJ	6 UJ	R	6 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6.5 U	6 U	R	6 UJ
106-93-4	1,2-DIBROMOETHANE	ug/kg	6.5 U	6 U	6.7 U	6 UJ
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6.5 U	6 U	R	6 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6.5 U	6 U	6.7 U	6 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6.5 U	6 U	R	6 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6.5 U	6 U	R	6 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	130 U	120 U	130 U	120 U
591-78-6	2-HEXANONE	ug/kg	32.5 U	29.8 U	33.7 U	29.8 UJ
67-64-1	ACETONE	ug/kg	17.6 J	21.3 J	170 J+	11.9 J
71-43-2	BENZENE	ug/kg	6.5 U	6 U	6.7 U	6 U
74-97-5	BROMOCHLOROMETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
75-25-2	BROMOFORM	ug/kg	6.5 U	6 U	6.7 U	6 UJ
74-83-9	BROMOMETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
75-15-0	CARBON DISULFIDE	ug/kg	6.5 UJ	6 UJ	6.7 UJ	6 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	6.5 U	6 U	6.7 U	6 U
108-90-7	CHLOROBENZENE	ug/kg	6.5 UJ	6 UJ	6.7 UJ	6 U
75-00-3	CHLOROETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
67-66-3	CHLOROFORM	ug/kg	6.5 U	6 U	6.7 U	6 U
74-87-3	CHLOROMETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6.5 U	6 U	6.7 U	6 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6.5 U	6 U	6.7 U	6 U
110-82-7	CYCLOHEXANE	ug/kg	6.5 U	6 U	6.7 U	6 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6.5 U	6 U	6.7 U	6 UJ
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
100-41-4	ETHYLBENZENE	ug/kg	6.5 U	6 U	6.7 U	6 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6.5 U	6 U	2.4 J	6 U
179601-23-1	M,P-XYLENES	ug/kg	13 U	11.9 U	13.5 U	11.9 U
79-20-9	METHYL ACETATE	ug/kg	6.5 U	6 U	6.7 U	6 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	32.5 U	29.8 U	39.7 J+	29.8 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	32.5 U	29.8 U	33.7 U	29.8 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	6.5 U	6 U	3.9 J	6 U
75-09-2	METHYLENE CHLORIDE	ug/kg	6.5 U	6 U	1.6 J	3.1 J
95-47-6	O-XYLENE	ug/kg	6.5 U	6 U	6.7 U	6 U
100-42-5	STYRENE	ug/kg	6.5 U	6 U	6.7 U	6 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6.5 U	6 U	6.7 U	6 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	6.5 U	6 U	6.7 U	6 U
108-88-3	TOLUENE	ug/kg	6.5 U	6 U	6.7 U	6 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6.5 U	6 U	6.7 U	6 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6.5 U	6 U	6.7 U	6 UJ
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6.5 U	6 U	6.7 U	6 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6.5 U	6 U	6.7 U	6 U
75-01-4	VINYL CHLORIDE	ug/kg	6.5 U	6 U	6.7 U	6 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-04 SB-04(2-4)-20151029 G4240-14 2 - 4 ft CTECH G4240 SO 10/29/2015 14:10 2/23/2016	SB-04 SB-04(18-20)-20151029 G4240-15 18 - 20 ft CTECH G4240 SO 10/29/2015 14:15 2/23/2016	SB-05 SB-05(8-10)-20151029 G4240-12 8 - 10 ft CTECH G4240 SO 10/29/2015 13:05 2/23/2016	SB-05 SB-05(18-20)-20151029 G4240-13 18 - 20 ft CTECH G4240 SO 10/29/2015 13:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	430 U	390 U	450 U	390 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	430 U	390 U	450 U	390 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	430 U	390 U	450 U	390 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	430 U	390 U	450 U	390 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	430 U	390 U	450 U	390 U
51-28-5	2,4-DINITROPHENOL	ug/kg	430 U	390 U	450 U	390 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	430 U	390 U	450 U	390 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	430 U	390 U	450 U	390 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	430 U	390 U	450 U	390 U
95-57-8	2-CHLOROPHENOL	ug/kg	430 U	390 U	450 U	390 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	430 U	390 U	450 U	390 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	430 U	390 U	450 U	390 U
88-74-4	2-NITROANILINE	ug/kg	430 U	390 U	450 U	390 U
88-75-5	2-NITROPHENOL	ug/kg	430 U	390 U	450 U	390 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	430 U	390 U	450 U	390 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	430 U	390 U	450 U	390 U
99-09-2	3-NITROANILINE	ug/kg	430 U	390 U	450 U	390 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	430 U	390 U	450 U	390 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	430 U	390 U	450 U	390 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	430 U	390 U	450 U	390 U
106-47-8	4-CHLOROANILINE	ug/kg	430 U	390 U	450 U	390 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	430 U	390 U	450 U	390 U
100-01-6	4-NITROANILINE	ug/kg	430 U	390 U	450 U	390 U
100-02-7	4-NITROPHENOL	ug/kg	430 U	390 U	450 U	390 U
83-32-9	ACENAPHTHENE	ug/kg	430 U	390 U	450 U	390 U
208-96-8	ACENAPHTHYLENE	ug/kg	430 U	390 U	450 U	390 U
98-86-2	ACETOPHENONE	ug/kg	430 U	390 U	450 U	390 U
120-12-7	ANTHRACENE	ug/kg	430 U	390 U	450 U	390 U
1912-24-9	ATRAZINE	ug/kg	430 U	390 U	450 U	390 U
100-52-7	BENZALDEHYDE	ug/kg	430 U	390 U	450 U	390 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	430 U	390 U	450 U	390 U
50-32-8	BENZO(A)PYRENE	ug/kg	430 U	390 U	450 U	390 U
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	430 U	390 U	450 U	390 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	430 U	390 U	450 U	390 U
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	430 U	390 U	450 U	390 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	430 U	390 U	450 U	390 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	430 U	390 U	450 U	390 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	430 U	390 U	450 U	390 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	430 U	390 U	450 U	390 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	430 U	390 U	450 U	390 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	430 U	390 U	450 U	390 U
105-60-2	CAPROLACTAM	ug/kg	430 U	390 U	450 U	390 U
86-74-8	CARBAZOLE	ug/kg	430 U	390 U	450 U	390 U
218-01-9	CHRYSENE	ug/kg	430 U	390 U	450 U	390 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	430 U	390 U	450 U	390 U
132-64-9	DIBENZOFURAN	ug/kg	430 U	390 U	450 U	390 U
84-66-2	DIETHYL PHTHALATE	ug/kg	430 U	390 U	450 U	390 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	460	600	980	680
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	430 U	390 U	450 U	390 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	430 U	390 U	450 U	390 U
206-44-0	FLUORANTHENE	ug/kg	430 U	390 U	450 U	390 U
86-73-7	FLUORENE	ug/kg	430 U	390 U	450 U	390 U
118-74-1	HEXACHLOROBENZENE	ug/kg	430 U	390 U	450 U	390 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	430 U	390 U	450 U	390 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	430 U	390 U	450 U	390 U
67-72-1	HEXACHLOROETHANE	ug/kg	430 U	390 U	450 U	390 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	430 U	390 U	450 U	390 U
78-59-1	ISOPHORONE	ug/kg	430 U	390 U	450 U	390 U
91-20-3	NAPHTHALENE	ug/kg	430 U	390 U	450 U	390 U
98-95-3	NITROBENZENE	ug/kg	430 U	390 U	450 U	390 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	430 U	390 U	450 U	390 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	430 U	390 U	450 U	390 U
87-86-5	PENTACHLOROPHENOL	ug/kg	430 U	390 U	450 U	390 U
85-01-8	PHENANTHRENE	ug/kg	430 U	390 U	450 U	390 U
108-95-2	PHENOL	ug/kg	430 U	390 U	450 U	390 U
129-00-0	PYRENE	ug/kg	430 U	390 U	450 U	390 U
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	430 U	390 U	450 U	390 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-04 SB-04(2-4)-20151029 G4240-14 2 - 4 ft CTECH G4240 SO 10/29/2015 14:10 2/23/2016	SB-04 SB-04(18-20)-20151029 G4240-15 18 - 20 ft CTECH G4240 SO 10/29/2015 14:15 2/23/2016	SB-05 SB-05(8-10)-20151029 G4240-12 8 - 10 ft CTECH G4240 SO 10/29/2015 13:05 2/23/2016	SB-05 SB-05(18-20)-20151029 G4240-13 18 - 20 ft CTECH G4240 SO 10/29/2015 13:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/kg	2.2 U		2.3 U	
319-84-6	ALPHA BHC	ug/kg	2.2 U		2.3 U	
959-98-8	ALPHA ENDOSULFAN	ug/kg	2.2 U		2.3 U	
5103-71-9	ALPHA-CHLORDANE	ug/kg	2.2 U		2.3 U	
319-85-7	BETA BHC	ug/kg	2.2 U		2.3 U	
33213-65-9	BETA ENDOSULFAN	ug/kg	2.2 U		2.3 U	
5103-74-2	BETA-CHLORDANE	ug/kg	2.2 U		2.3 U	
319-86-8	DELTA BHC	ug/kg	2.2 U		2.3 U	
60-57-1	DIELDRIN	ug/kg	2.2 U		2.3 U	
1031-07-8	ENDOSULFAN SULFATE	ug/kg	2.2 U		2.3 U	
72-20-8	ENDRIN	ug/kg	2.2 U		2.3 U	
7421-93-4	ENDRIN ALDEHYDE	ug/kg	2.2 U		2.3 U	
53494-70-5	ENDRIN KETONE	ug/kg	2.2 U		2.3 U	
58-89-9	GAMMA BHC (LINDANE)	ug/kg	2.2 U		2.3 U	
76-44-8	HEPTACHLOR	ug/kg	2.2 U		2.3 U	
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg	2.2 U		2.3 U	
72-43-5	METHOXYCHLOR	ug/kg	2.2 U		2.3 U	
72-54-8	P,P'-DDD	ug/kg	2.2 U		2.3 U	
72-55-9	P,P'-DDE	ug/kg	2.2 U		2.3 U	
50-29-3	P,P'-DDT	ug/kg	2.2 U		2.3 U	
8001-35-2	TOXAPHENE	ug/kg	21.9 U		22.9 U	
	PCBs					
12674-11-2	PCB-1016 (AROCOR 1016)	ug/kg	21.9 U		22.9 U	
11104-28-2	PCB-1221 (AROCOR 1221)	ug/kg	21.9 U		22.9 U	
11141-16-5	PCB-1232 (AROCOR 1232)	ug/kg	21.9 U		22.9 U	
53469-21-9	PCB-1242 (AROCOR 1242)	ug/kg	21.9 U		22.9 U	
12672-29-6	PCB-1248 (AROCOR 1248)	ug/kg	21.9 U		22.9 U	
11097-69-1	PCB-1254 (AROCOR 1254)	ug/kg	21.9 U		22.9 U	
11096-82-5	PCB-1260 (AROCOR 1260)	ug/kg	21.9 U		22.9 U	
37324-23-5	PCB-1262 (AROCOR 1262)	ug/kg	21.9 U		22.9 U	
11100-14-4	PCB-1268 (AROCOR 1268)	ug/kg	21.9 U		22.9 U	
	HERBICIDES					
94-75-7	2,4-D	ug/kg	86.4 U		90.3 U	
93-72-1	SILVEX (2,4,5-TP)	ug/kg	86.4 U		90.3 U	
1918-00-9	DICAMBA	ug/kg	86.4 U		90.3 U	
120-36-5	DICHLOROPROP	ug/kg	86.4 U		90.3 U	
88-85-7	DINOSIB	ug/kg	86.4 U		90.3 U	
93-76-5	2,4,5-T	ug/kg	86.4 U		90.3 U	
94-82-6	2,4 DB	ug/kg	86.4 U		90.3 U	
	INORGANICS					
7429-90-5	ALUMINUM	mg/kg	7620	1580	4850	1870
7440-36-0	ANTIMONY	mg/kg	2.66 U	2.57 U	2.78 U	2.54 U
7440-38-2	ARSENIC	mg/kg	5.27	2.04	3.76	2.5
7440-39-3	BARIUM	mg/kg	103	10.92	61.4	12.3
7440-41-7	BERYLLIUM	mg/kg	0.554	0.12 J	0.373	0.141 J
7440-43-9	CADMIUM	mg/kg	0.527	0.112 J	0.224 J	0.127 J
7440-70-2	CALCIUM	mg/kg	4970	36900	30100	37700
7440-47-3	CHROMIUM, TOTAL	mg/kg	11.7	2.87	7.71	3.28
7440-48-4	COBALT	mg/kg	9.1	2.26	5.02	2.43
7440-50-8	COPPER	mg/kg	10.67	5.88	9.25	6
7439-89-6	IRON	mg/kg	24500	5850	14500	5560
7439-92-1	LEAD	mg/kg	18.6	4.02	11.7	2.94
7439-95-4	MAGNESIUM	mg/kg	2590	12500	2930	10500
7439-96-5	MANGANESE	mg/kg	809	185	282	170
7439-97-6	MERCURY	mg/kg	0.069	0.014 U	0.036	0.015 U
7440-02-0	NICKEL	mg/kg	23.4	5.66	12.7	6.98
7440-09-7	POTASSIUM	mg/kg	620	356	467	419
7782-49-2	SELENIUM	mg/kg	1.06 U	1.03 U	1.11 U	1.02 U
7440-22-4	SILVER	mg/kg	1.81	0.351 J	0.969	0.319 J
7440-23-5	SODIUM	mg/kg	74.3 J	103 J	284	108
7440-28-0	THALLIUM	mg/kg	2.13 U	2.06 U	2.22 U	2.03 U
7440-62-2	VANADIUM	mg/kg	16.4	5.65	12.4	5.45
7440-66-6	ZINC	mg/kg	136	40.5	71.6	31.3
57-12-5	CYANIDE	mg/kg	0.299 U	0.286 U	0.31 U	0.274 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-04 SB-04(2-4)-20151029 G4240-14 2 - 4 ft CTECH G4240 SO 10/29/2015 14:10 2/23/2016	SB-04 SB-04(18-20)-20151029 G4240-15 18 - 20 ft CTECH G4240 SO 10/29/2015 14:15 2/23/2016	SB-05 SB-05(8-10)-20151029 G4240-12 8 - 10 ft CTECH G4240 SO 10/29/2015 13:05 2/23/2016	SB-05 SB-05(18-20)-20151029 G4240-13 18 - 20 ft CTECH G4240 SO 10/29/2015 13:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILE TICs					
UNKNOWN1.	unknown1.38	ug/kg				
UNKNOWN1.	unknown1.61	ug/kg				
UNKNOWN3.	unknown3.11	ug/kg				
103-65-1	N-PROPYLBENZENE	ug/kg			3.2 JN	
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			3 JN	
135-98-8	SEC-BUTYLBENZENE	ug/kg			5.8 JN	
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg			9.5 JN	
17301-23-4	2,6-Dimethylundecane	ug/kg			230 JN	
17301-28-9	3,6-Dimethylundecane	ug/kg				9.6 JN
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg				6.5 JN
UNKNOWN14	unknown14.78	ug/kg			100 J	
UNKNOWN15	unknown15.22	ug/kg			130 J	
62108-24-1	2,6,6-Trimethyldecane	ug/kg			80.9 JN	
62108-25-2	2,6,7-Trimethyldecane	ug/kg			230 JN	12.4 JN
UNKNOWN15	unknown15.62	ug/kg			140 J	
UNKNOWN16	unknown16.14	ug/kg			150 J	
5617-41-4	Heptylcyclohexane	ug/kg			80.6 JN	
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg			110 JN	12.5 JN

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-04 SB-04(2-4)-20151029 G4240-14 2 - 4 ft CTECH G4240 SO 10/29/2015 14:10 2/23/2016	SB-04 SB-04(18-20)-20151029 G4240-15 18 - 20 ft CTECH G4240 SO 10/29/2015 14:15 2/23/2016	SB-05 SB-05(8-10)-20151029 G4240-12 8 - 10 ft CTECH G4240 SO 10/29/2015 13:05 2/23/2016	SB-05 SB-05(18-20)-20151029 G4240-13 18 - 20 ft CTECH G4240 SO 10/29/2015 13:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
110-54-3	N-HEXANE	ug/kg				
142-82-5	N-HEPTANE	ug/kg				
123-42-2	Diacetone Alcohol	ug/kg	R	R	R	R
1000123-86-3	Tranlylcypromine-propionyl	ug/kg				
UNKNOWN6.	unknown6.64	ug/kg				R
UNKNOWN6.	unknown6.65	ug/kg	4600 J	4100 J	4400 J	
1795-15-9	Octyl Cyclohexane	ug/kg			120 JN	
50871-03-9	1-Decene, 3,4-dimethyl-	ug/kg			150 JN	
5617-41-4	Heptylcyclohexane	ug/kg			270 JN	
629-50-5	N-Tridecane	ug/kg			200 JN	
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg			120 JN	
575-43-9	1,6-Dimethylnaphthalene	ug/kg			180 JN	
UNKNOWN10	unknown10.19	ug/kg			140 J	
UNKNOWN10	unknown10.49	ug/kg			120 J	
112-95-8	N-Eicosane	ug/kg				
1921-70-6	Norphytane	ug/kg				
3892-00-0	2,6,10-Trimethylpentadecane	ug/kg			400 JN	
4443-55-4	Eicosyl Cyclohexane	ug/kg			140 JN	
544-76-3	N-Hexadecane	ug/kg		120 JN		
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg			440 JN	
55045-08-4	2-Methyl-6-Propyldodecane	ug/kg				91.4 JN
629-50-5	N-Tridecane	ug/kg				170 JN
629-59-4	N-Tetradecane	ug/kg			110 JN	
629-62-9	Pentadecane	ug/kg				
629-78-7	Heptadecane	ug/kg				
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg			780 JN	
13187-99-0	2-Bromo Dodecane	ug/kg				
295-17-0	Cyclotetradecane	ug/kg		210 JN		
295-65-8	Cyclohexadecane	ug/kg		120 JN		
35953-53-8	2-Tetradecene, (E)-	ug/kg				
57-10-3	HEXADECANOIC ACID	ug/kg	410 JN	380 JN	310 JN	
629-78-7	Heptadecane	ug/kg			130 JN	
638-53-9	Tridecanoic Acid	ug/kg				400 JN
74685-29-3	(E)-9-Eicosene	ug/kg				
1002-84-2	Pentadecanoic Acid	ug/kg				
111-06-8	Butyl Hexadecanoate	ug/kg				
112-95-8	N-Eicosane	ug/kg		120 JN		
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg		83.3 JN		
334-48-5	Decanoic Acid	ug/kg				
544-63-8	Tetradecanoic Acid	ug/kg				130 JN
57-11-4	Octadecanoic Acid	ug/kg	210 JN	310 JN	240 JN	
629-01-6	Octanamide	ug/kg				
629-54-9	Hexadecanamide	ug/kg		170 JN		
638-58-4	Tetradecanamide	ug/kg				220 JN
646-31-1	N-Tetracosane	ug/kg				
1000282-97-3	Heptafluorobutanoic Acid, Heptadecy	ug/kg			340 JN	
123-95-5	N-Butyl Stearate	ug/kg				
1454-84-8	Nonadecanol	ug/kg				
18435-45-5	1-Nonadecene	ug/kg				
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg				
295-17-0	Cyclotetradecane	ug/kg	600 JN			
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg				
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg				
74685-29-3	(E)-9-Eicosene	ug/kg				
74685-30-6	5-Eicosene (E)-	ug/kg		370 JN		360 JN
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg				
62016-79-9	1-Chloroheptacosane	ug/kg				
7683-64-9	Squalene	ug/kg				160 JN
112-92-5	1-Octadecanol	ug/kg				
1599-67-3	1-Docosene	ug/kg				
18435-45-5	1-Nonadecene	ug/kg				
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg				
6971-40-0	17-Pentatriacontene	ug/kg				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg	140 JN			
295-48-7	Cyclopentadecaneáááááááá	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-06 SB-06(14-16)-20151028 G4240-06 14 - 16 ft CTECH G4240 SO 10/28/2015 14:40 2/23/2016	SB-06 SB-06(18-20)-20151028 G4240-07 18 - 20 ft CTECH G4240 SO 10/28/2015 14:45 2/23/2016	SB-07 SB-07(4-6)-20151028 G4240-08 4 - 6 ft CTECH G4240 SO 10/28/2015 16:05 2/23/2016	SB-07 SB-07(22-24)-20151028 G4240-11 22 - 24 ft CTECH G4240 SO 10/28/2015 16:15 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6.1 U	5.8 U	5.7 U	R
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6.1 UJ	5.8 UJ	5.7 U	5.9 UJ
75-34-3	1,1-DICHLOROETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	6.1 U	5.8 U	5.7 UJ	R
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6.1 U	5.8 U	5.7 UJ	R
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6.1 UJ	5.8 UJ	5.7 U	R
106-93-4	1,2-DIBROMOETHANE	ug/kg	6.1 UJ	5.8 UJ	5.7 U	5.9 UJ
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6.1 U	5.8 U	5.7 U	R
107-06-2	1,2-DICHLOROETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6.1 U	5.8 U	5.7 U	R
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6.1 U	5.8 U	5.7 U	R
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	120 U	120 U	110 U	120 U
591-78-6	2-HEXANONE	ug/kg	30.4 UJ	29.2 UJ	28.7 U	29.3 UJ
67-64-1	ACETONE	ug/kg	30.4 U	18.1 J	21.9 J	22.1 J
71-43-2	BENZENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
74-97-5	BROMOCHLOROMETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
75-25-2	BROMOFORM	ug/kg	6.1 UJ	5.8 UJ	5.7 U	5.9 UJ
74-83-9	BROMOMETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
75-15-0	CARBON DISULFIDE	ug/kg	6.1 UJ	5.8 UJ	5.7 UJ	5.9 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
108-90-7	CHLOROBENZENE	ug/kg	6.1 U	5.8 U	5.7 UJ	5.9 U
75-00-3	CHLOROETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
67-66-3	CHLOROFORM	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
74-87-3	CHLOROMETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
110-82-7	CYCLOHEXANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6.1 UJ	5.8 UJ	5.7 U	5.9 UJ
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
100-41-4	ETHYLBENZENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6.1 U	5.8 U	5.7 U	R
179601-23-1	M,P-XYLENES	ug/kg	12.1 U	11.7 U	11.5 U	11.7 U
79-20-9	METHYL ACETATE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	30.4 U	29.2 U	28.7 U	29.3 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	30.4 U	29.2 U	28.7 U	29.3 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
75-09-2	METHYLENE CHLORIDE	ug/kg	1.3 J	2.1 J	5.7 U	1.5 J
95-47-6	O-XYLENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
100-42-5	STYRENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
108-88-3	TOLUENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6.1 UJ	5.8 UJ	5.7 U	5.9 UJ
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U
75-01-4	VINYL CHLORIDE	ug/kg	6.1 U	5.8 U	5.7 U	5.9 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-06 SB-06(14-16)-20151028 G4240-06 14 - 16 ft CTECH G4240 SO 10/28/2015 14:40 2/23/2016	SB-06 SB-06(18-20)-20151028 G4240-07 18 - 20 ft CTECH G4240 SO 10/28/2015 14:45 2/23/2016	SB-07 SB-07(4-6)-20151028 G4240-08 4 - 6 ft CTECH G4240 SO 10/28/2015 16:05 2/23/2016	SB-07 SB-07(22-24)-20151028 G4240-11 22 - 24 ft CTECH G4240 SO 10/28/2015 16:15 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	400 U	380 U	380 U	390 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	400 U	380 U	380 U	390 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	400 U	380 U	380 U	390 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	400 U	380 U	380 U	390 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	400 U	380 U	380 U	390 U
51-28-5	2,4-DINITROPHENOL	ug/kg	400 U	380 U	380 U	390 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	400 U	380 U	380 U	390 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	400 U	380 U	380 U	390 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	400 U	380 U	380 U	390 U
95-57-8	2-CHLOROPHENOL	ug/kg	400 U	380 U	380 U	390 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	400 U	380 U	380 U	390 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	400 U	380 U	380 U	390 U
88-74-4	2-NITROANILINE	ug/kg	400 U	380 U	380 U	390 U
88-75-5	2-NITROPHENOL	ug/kg	400 U	380 U	380 U	390 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	400 U	380 U	380 U	390 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	400 U	380 U	380 U	390 U
99-09-2	3-NITROANILINE	ug/kg	400 U	380 U	380 U	390 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	400 U	380 U	380 U	390 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	400 U	380 U	380 U	390 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	400 U	380 U	380 U	390 U
106-47-8	4-CHLOROANILINE	ug/kg	400 U	380 U	380 U	390 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	400 U	380 U	380 U	390 U
100-01-6	4-NITROANILINE	ug/kg	400 U	380 U	380 U	390 U
100-02-7	4-NITROPHENOL	ug/kg	400 U	380 U	380 U	390 U
83-32-9	ACENAPHTHENE	ug/kg	400 U	380 U	380 U	390 U
208-96-8	ACENAPHTHYLENE	ug/kg	400 U	380 U	380 U	390 U
98-86-2	ACETOPHENONE	ug/kg	400 U	380 U	380 U	390 U
120-12-7	ANTHRACENE	ug/kg	400 U	380 U	380 U	390 U
1912-24-9	ATRAZINE	ug/kg	400 U	380 U	380 U	390 U
100-52-7	BENZALDEHYDE	ug/kg	400 U	380 U	380 U	390 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	400 U	380 U	380 U	390 U
50-32-8	BENZO(A)PYRENE	ug/kg	400 U	380 U	380 U	390 U
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	400 UJ	380 UJ	380 UJ	390 UJ
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	400 U	380 U	380 U	390 U
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	400 U	380 U	380 U	390 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	400 U	380 U	380 U	390 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	400 U	380 U	380 U	390 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	400 U	380 U	380 U	390 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	400 U	380 U	380 U	390 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	400 U	380 U	380 U	390 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	400 U	380 U	380 U	390 U
105-60-2	CAPROLACTAM	ug/kg	400 U	380 U	380 U	390 U
86-74-8	CARBAZOLE	ug/kg	400 U	380 U	380 U	390 U
218-01-9	CHRYSENE	ug/kg	400 U	380 U	380 U	390 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	400 U	380 U	380 U	390 U
132-64-9	DIBENZOFURAN	ug/kg	400 U	380 U	380 U	390 U
84-66-2	DIETHYL PHTHALATE	ug/kg	400 U	380 U	380 U	390 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	490	470	560	430
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	400 U	380 U	380 U	390 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	400 U	380 U	380 U	390 U
206-44-0	FLUORANTHENE	ug/kg	400 U	380 U	380 U	390 U
86-73-7	FLUORENE	ug/kg	400 U	380 U	380 U	390 U
118-74-1	HEXACHLOROBENZENE	ug/kg	400 U	380 U	380 U	390 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	400 U	380 U	380 U	390 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	400 U	380 U	380 U	390 U
67-72-1	HEXACHLOROETHANE	ug/kg	400 U	380 U	380 U	390 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	400 UJ	380 UJ	380 UJ	390 UJ
78-59-1	ISOPHORONE	ug/g	400 U	380 U	380 U	390 U
91-20-3	NAPHTHALENE	ug/g	400 U	380 U	380 U	390 U
98-95-3	NITROBENZENE	ug/kg	400 U	380 U	380 U	390 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	400 U	380 U	380 U	390 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	400 U	380 U	380 U	390 U
87-86-5	PENTACHLOROPHENOL	ug/kg	400 U	380 U	380 U	390 U
85-01-8	PHENANTHRENE	ug/kg	400 U	380 U	380 U	390 U
108-95-2	PHENOL	ug/kg	400 U	380 U	380 U	390 U
129-00-0	PYRENE	ug/kg	400 U	380 U	380 U	390 U
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	400 U	380 U	380 U	390 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-06 SB-06(14-16)-20151028 G4240-06 14 - 16 ft CTECH G4240 SO 10/28/2015 14:40 2/23/2016	SB-06 SB-06(18-20)-20151028 G4240-07 18 - 20 ft CTECH G4240 SO 10/28/2015 14:45 2/23/2016	SB-07 SB-07(4-6)-20151028 G4240-08 4 - 6 ft CTECH G4240 SO 10/28/2015 16:05 2/23/2016	SB-07 SB-07(22-24)-20151028 G4240-11 22 - 24 ft CTECH G4240 SO 10/28/2015 16:15 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/kg			1.9 U	
319-84-6	ALPHA BHC	ug/kg			1.9 U	
959-98-8	ALPHA ENDOSULFAN	ug/kg			1.9 U	
5103-71-9	ALPHA-CHLORDANE	ug/kg			1.9 U	
319-85-7	BETA BHC	ug/kg			1.9 U	
33213-65-9	BETA ENDOSULFAN	ug/kg			1.9 U	
5103-74-2	BETA-CHLORDANE	ug/kg			1.9 U	
319-86-8	DELTA BHC	ug/kg			1.9 U	
60-57-1	DIELDRIN	ug/kg			1.9 U	
1031-07-8	ENDOSULFAN SULFATE	ug/kg			1.9 U	
72-20-8	ENDRIN	ug/kg			1.9 U	
7421-93-4	ENDRIN ALDEHYDE	ug/kg			1.9 U	
53494-70-5	ENDRIN KETONE	ug/kg			1.9 U	
58-89-9	GAMMA BHC (LINDANE)	ug/kg			1.9 U	
76-44-8	HEPTACHLOR	ug/kg			1.9 U	
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg			1.9 U	
72-43-5	METHOXYCHLOR	ug/kg			1.9 U	
72-54-8	P,P'-DDD	ug/kg			1.9 U	
72-55-9	P,P'-DDE	ug/kg			1.9 U	
50-29-3	P,P'-DDT	ug/kg			1.9 U	
8001-35-2	TOXAPHENE	ug/kg			19.5 U	
	PCBs					
12674-11-2	PCB-1016 (AROCOR 1016)	ug/kg			19.5 U	
11104-28-2	PCB-1221 (AROCOR 1221)	ug/kg			19.5 U	
11141-16-5	PCB-1232 (AROCOR 1232)	ug/kg			19.5 U	
53469-21-9	PCB-1242 (AROCOR 1242)	ug/kg			19.5 U	
12672-29-6	PCB-1248 (AROCOR 1248)	ug/kg			19.5 U	
11097-69-1	PCB-1254 (AROCOR 1254)	ug/kg			19.5 U	
11096-82-5	PCB-1260 (AROCOR 1260)	ug/kg			19.5 U	
37324-23-5	PCB-1262 (AROCOR 1262)	ug/kg			19.5 U	
11100-14-4	PCB-1268 (AROCOR 1268)	ug/kg			19.5 U	
	HERBICIDES					
94-75-7	2,4-D	ug/kg			76.8 U	
93-72-1	SILVEX (2,4,5-TP)	ug/kg			76.8 U	
1918-00-9	DICAMBA	ug/kg			76.8 U	
120-36-5	DICHLOROPROP	ug/kg			76.8 U	
88-85-7	DINOSIB	ug/kg			76.8 U	
93-76-5	2,4,5-T	ug/kg			76.8 U	
94-82-6	2,4 DB	ug/kg			76.8 U	
	INORGANICS					
7429-90-5	ALUMINUM	mg/kg	5780	4420	5400	2200
7440-36-0	ANTIMONY	mg/kg	2.44 U	2.44 U	2.45 UJ	2.43 U
7440-38-2	ARSENIC	mg/kg	3.89	4.24	4.94	2.67
7440-39-3	BARIUM	mg/kg	63.3	41	75.9 J	22.2
7440-41-7	BERYLLIUM	mg/kg	0.382	0.318	0.411	0.166 J
7440-43-9	CADMIUM	mg/kg	0.347	0.182 J	0.279 J	0.151 J
7440-70-2	CALCIUM	mg/kg	66800	33400	3730 J	43500
7440-47-3	CHROMIUM, TOTAL	mg/kg	8.42	6.89	8.59	4.28
7440-48-4	COBALT	mg/kg	6.58	5.06	6.7	2.73
7440-50-8	COPPER	mg/kg	10.85	12.8	7.8	6.41
7439-89-6	IRON	mg/kg	14500	12600	16800	7490
7439-92-1	LEAD	mg/kg	7.58	8.22	10.41	6.36
7439-95-4	MAGNESIUM	mg/kg	20500	10100	1940 J	12800
7439-96-5	MANGANESE	mg/kg	323	304	711 J	217
7439-97-6	MERCURY	mg/kg	0.026	0.015 U	0.014 J	0.015 U
7440-02-0	NICKEL	mg/kg	18	15.3	15.6	7.34
7440-09-7	POTASSIUM	mg/kg	1270	774	497 J	480
7782-49-2	SELENIUM	mg/kg	0.977 U	0.976 U	0.978 UJ	0.971 U
7440-22-4	SILVER	mg/kg	0.924	0.829	1.19	0.451 J
7440-23-5	SODIUM	mg/kg	190	172	43.6 J	120
7440-28-0	THALLIUM	mg/kg	1.95 U	1.95 U	1.96 U	1.94 U
7440-62-2	VANADIUM	mg/kg	12.1	9.94	14.5	6.51
7440-66-6	ZINC	mg/kg	44.5	52.4	72.3	46
57-12-5	CYANIDE	mg/kg	0.295 U	0.268 U	0.282 U	0.278 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-06 SB-06(14-16)-20151028 G4240-06 14 - 16 ft CTECH G4240 SO 10/28/2015 14:40 2/23/2016	SB-06 SB-06(18-20)-20151028 G4240-07 18 - 20 ft CTECH G4240 SO 10/28/2015 14:45 2/23/2016	SB-07 SB-07(4-6)-20151028 G4240-08 4 - 6 ft CTECH G4240 SO 10/28/2015 16:05 2/23/2016	SB-07 SB-07(22-24)-20151028 G4240-11 22 - 24 ft CTECH G4240 SO 10/28/2015 16:15 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILE TICs					
UNKNOWN1.	unknown1.38	ug/kg				
UNKNOWN1.	unknown1.61	ug/kg				
UNKNOWN3.	unknown3.11	ug/kg				
103-65-1	N-PROPYLBENZENE	ug/kg				
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg				
135-98-8	SEC-BUTYLBENZENE	ug/kg				
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg				
17301-23-4	2,6-Dimethylundecane	ug/kg				
17301-28-9	3,6-Dimethylundecane	ug/kg				
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg				
UNKNOWN14	unknown14.78	ug/kg				
UNKNOWN15	unknown15.22	ug/kg				
62108-24-1	2,6,6-Trimethyldecane	ug/kg				
62108-25-2	2,6,7-Trimethyldecane	ug/kg				
UNKNOWN15	unknown15.62	ug/kg				
UNKNOWN16	unknown16.14	ug/kg				
5617-41-4	Heptylcyclohexane	ug/kg				
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-06 SB-06(14-16)-20151028 G4240-06 14 - 16 ft CTECH G4240 SO 10/28/2015 14:40 2/23/2016	SB-06 SB-06(18-20)-20151028 G4240-07 18 - 20 ft CTECH G4240 SO 10/28/2015 14:45 2/23/2016	SB-07 SB-07(4-6)-20151028 G4240-08 4 - 6 ft CTECH G4240 SO 10/28/2015 16:05 2/23/2016	SB-07 SB-07(22-24)-20151028 G4240-11 22 - 24 ft CTECH G4240 SO 10/28/2015 16:15 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
110-54-3	N-HEXANE	ug/kg	270 JN			
142-82-5	N-HEPTANE	ug/kg	110 JN			
123-42-2	Diacetone Alcohol	ug/kg	R	R	R	R
1000123-86-3	Tranylcypromine-propionyl	ug/kg				2900 JN
UNKNOWN6.	unknown6.64	ug/kg		R	R	
UNKNOWN6.	unknown6.65	ug/kg	3800 J			
1795-15-9	Octyl Cyclohexane	ug/kg				
50871-03-9	1-Decene, 3,4-dimethyl-	ug/kg				
5617-41-4	Heptylcyclohexane	ug/kg				
629-50-5	N-Tridecane	ug/kg				
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg				
575-43-9	1,6-Dimethylnaphthalene	ug/kg				
UNKNOWN10	unknown10.19	ug/kg				
UNKNOWN10	unknown10.49	ug/kg				
112-95-8	N-Eicosane	ug/kg				
1921-70-6	Norphytane	ug/kg				
3892-00-0	2,6,10-Trimethylpentadecane	ug/kg				
4443-55-4	Eicosyl Cyclohexane	ug/kg				
544-76-3	N-Hexadecane	ug/kg				
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg				
55045-08-4	2-Methyl-6-Propyldodecane	ug/kg				
629-50-5	N-Tridecane	ug/kg				
629-59-4	N-Tetradecane	ug/kg				
629-62-9	Pentadecane	ug/kg				
629-78-7	Heptadecane	ug/kg				
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg				
13187-99-0	2-Bromo Dodecane	ug/kg				
295-17-0	Cyclotetradecane	ug/kg				
295-65-8	Cyclohexadecane	ug/kg				
35953-53-8	2-Tetradecene, (E)-	ug/kg				
57-10-3	HEXADECANOIC ACID	ug/kg	260 JN		420 JN	360 JN
629-78-7	Heptadecane	ug/kg				
638-53-9	Tridecanoic Acid	ug/kg		280 JN		
74685-29-3	(E)-9-Eicosene	ug/kg				
1002-84-2	Pentadecanoic Acid	ug/kg		91.4 JN	140 JN	
111-06-8	Butyl Hexadecanoate	ug/kg			140 JN	
112-95-8	N-Eicosane	ug/kg				
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg				
334-48-5	Decanoic Acid	ug/kg				
544-63-8	Tetradecanoic Acid	ug/kg				250 JN
57-11-4	Octadecanoic Acid	ug/kg				
629-01-6	Octanamide	ug/kg				
629-54-9	Hexadecanamide	ug/kg				
638-58-4	Tetradecanamide	ug/kg				
646-31-1	N-Tetracosane	ug/kg				
1000282-97-3	Heptafluorobutanoic Acid, Heptadecy	ug/kg				
123-95-5	N-Butyl Stearate	ug/kg			100 JN	
1454-84-8	Nonadecanol	ug/kg				
18435-45-5	1-Nonadecene	ug/kg				
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg				
295-17-0	Cyclotetradecane	ug/kg				
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg				280 JN
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg				
74685-29-3	(E)-9-Eicosene	ug/kg	400 JN			
74685-30-6	5-Eicosene (E)-	ug/kg		340 JN	380 JN	
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg				
62016-79-9	1-Chloroheptacosane	ug/kg				
7683-64-9	Squalene	ug/kg		90.7 JN	83.1 JN	
112-92-5	1-Octadecanol	ug/kg	91.4 JN			
1599-67-3	1-Docosene	ug/kg				
18435-45-5	1-Nonadecene	ug/kg			100 JN	
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg		90.7 JN		
6971-40-0	17-Pentatriacontene	ug/kg				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg				
295-48-7	Cyclopentadecaneáááááááá	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-08 SB-08(10-12)-20151028 G4240-04 10 - 12 ft CTECH G4240 SO 10/28/2015 13:50 2/23/2016	SB-08 SB-08(18-20)-20151028 G4240-05 18 - 20 ft CTECH G4240 SO 10/28/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:		
	VOLATILES			
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	5.9 U	5.8 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	5.9 U	5.8 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	5.9 U	5.8 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	5.9 UJ	5.8 UJ
75-34-3	1,1-DICHLOROETHANE	ug/kg	5.9 U	5.8 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	5.9 U	5.8 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	5.9 U	5.8 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	5.9 U	5.8 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	5.9 UJ	5.8 UJ
106-93-4	1,2-DIBROMOETHANE	ug/kg	5.9 UJ	5.8 UJ
95-50-1	1,2-DICHLOROBENZENE	ug/kg	5.9 U	5.8 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	5.9 U	5.8 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	5.9 U	5.8 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	5.9 U	5.8 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	5.9 U	5.8 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	120 U	120 U
591-78-6	2-HEXANONE	ug/kg	29.6 UJ	29.1 UJ
67-64-1	ACETONE	ug/kg	29.6 U	29.1 U
71-43-2	BENZENE	ug/kg	5.9 U	5.8 U
74-97-5	BROMOCHLOROMETHANE	ug/kg	5.9 U	5.8 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	5.9 U	5.8 U
75-25-2	BROMOFORM	ug/kg	5.9 UJ	5.8 UJ
74-83-9	BROMOMETHANE	ug/kg	5.9 U	5.8 U
75-15-0	CARBON DISULFIDE	ug/kg	5.9 UJ	5.8 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	5.9 U	5.8 U
108-90-7	CHLOROBENZENE	ug/kg	5.9 U	5.8 U
75-00-3	CHLOROETHANE	ug/kg	5.9 U	5.8 U
67-66-3	CHLOROFORM	ug/kg	5.9 U	5.8 U
74-87-3	CHLOROMETHANE	ug/kg	5.9 U	5.8 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	5.9 U	5.8 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	5.9 U	5.8 U
110-82-7	CYCLOHEXANE	ug/kg	5.9 U	5.8 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	5.9 UJ	5.8 UJ
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	5.9 U	5.8 U
100-41-4	ETHYLBENZENE	ug/kg	5.9 U	5.8 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	5.9 U	5.8 U
179601-23-1	M,P-XYLENES	ug/kg	11.8 U	11.6 U
79-20-9	METHYL ACETATE	ug/kg	5.9 U	5.8 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	29.6 U	29.1 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	29.6 U	29.1 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	5.9 U	5.8 U
75-09-2	METHYLENE CHLORIDE	ug/kg	5.9 U	5.8 U
95-47-6	O-XYLENE	ug/kg	5.9 U	5.8 U
100-42-5	STYRENE	ug/kg	5.9 U	5.8 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	5.9 U	5.8 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	5.9 U	5.8 U
108-88-3	TOLUENE	ug/kg	5.9 U	5.8 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	5.9 U	5.8 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	5.9 UJ	5.8 UJ
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	5.9 U	5.8 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	5.9 U	5.8 U
75-01-4	VINYL CHLORIDE	ug/kg	5.9 U	5.8 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-08 SB-08(10-12)-20151028 G4240-04 10 - 12 ft CTECH G4240 SO 10/28/2015 13:50 2/23/2016	SB-08 SB-08(18-20)-20151028 G4240-05 18 - 20 ft CTECH G4240 SO 10/28/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:		
	SEMIVOLATILES			
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	390 U	380 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	390 U	380 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	390 U	380 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	390 U	380 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	390 U	380 U
51-28-5	2,4-DINITROPHENOL	ug/kg	390 U	380 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	390 U	380 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	390 U	380 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	390 U	380 U
95-57-8	2-CHLOROPHENOL	ug/kg	390 U	380 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	390 U	380 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	390 U	380 U
88-74-4	2-NITROANILINE	ug/kg	390 U	380 U
88-75-5	2-NITROPHENOL	ug/kg	390 U	380 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	390 U	380 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	390 U	380 U
99-09-2	3-NITROANILINE	ug/kg	390 U	380 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	390 U	380 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	390 U	380 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	390 U	380 U
106-47-8	4-CHLOROANILINE	ug/kg	390 U	380 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	390 U	380 U
100-01-6	4-NITROANILINE	ug/kg	390 U	380 U
100-02-7	4-NITROPHENOL	ug/kg	390 U	380 U
83-32-9	ACENAPHTHENE	ug/kg	390 U	380 U
208-96-8	ACENAPHTHYLENE	ug/kg	390 U	380 U
98-86-2	ACETOPHENONE	ug/kg	390 U	380 U
120-12-7	ANTHRACENE	ug/kg	390 U	380 U
1912-24-9	ATRAZINE	ug/kg	390 U	380 U
100-52-7	BENZALDEHYDE	ug/kg	390 U	380 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	390 U	380 U
50-32-8	BENZO(A)PYRENE	ug/kg	390 U	380 U
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	390 U	380 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	390 U	380 U
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	390 U	380 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	390 U	380 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	390 U	380 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	390 U	380 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	390 U	380 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	390 U	380 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	390 U	380 U
105-60-2	CAPROLACTAM	ug/kg	390 U	380 U
86-74-8	CARBAZOLE	ug/kg	390 U	380 U
218-01-9	CHRYSENE	ug/kg	390 U	380 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	390 U	380 U
132-64-9	DIBENZOFURAN	ug/kg	390 U	380 U
84-66-2	DIETHYL PHTHALATE	ug/kg	390 U	380 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	660	530
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	390 U	380 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	390 U	380 U
206-44-0	FLUORANTHENE	ug/kg	390 U	380 U
86-73-7	FLUORENE	ug/kg	390 U	380 U
118-74-1	HEXACHLOROBENZENE	ug/kg	390 U	380 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	390 U	380 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	390 U	380 U
67-72-1	HEXACHLOROETHANE	ug/kg	390 U	380 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	390 U	380 U
78-59-1	ISOPHORONE	ug/kg	390 U	380 U
91-20-3	NAPHTHALENE	ug/kg	390 U	380 U
98-95-3	NITROBENZENE	ug/kg	390 U	380 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	390 U	380 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	390 U	380 U
87-86-5	PENTACHLOROPHENOL	ug/kg	390 U	380 U
85-01-8	PHENANTHRENE	ug/kg	390 U	380 U
108-95-2	PHENOL	ug/kg	390 U	380 U
129-00-0	PYRENE	ug/kg	390 U	380 U
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	390 U	380 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-08 SB-08(10-12)-20151028 G4240-04 10 - 12 ft CTECH G4240 SO 10/28/2015 13:50 2/23/2016	SB-08 SB-08(18-20)-20151028 G4240-05 18 - 20 ft CTECH G4240 SO 10/28/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:		
	PESTICIDES			
309-00-2	ALDRIN	ug/kg		
319-84-6	ALPHA BHC	ug/kg		
959-98-8	ALPHA ENDOSULFAN	ug/kg		
5103-71-9	ALPHA-CHLORDANE	ug/kg		
319-85-7	BETA BHC	ug/kg		
33213-65-9	BETA ENDOSULFAN	ug/kg		
5103-74-2	BETA-CHLORDANE	ug/kg		
319-86-8	DELTA BHC	ug/kg		
60-57-1	DIELDRIN	ug/kg		
1031-07-8	ENDOSULFAN SULFATE	ug/kg		
72-20-8	ENDRIN	ug/kg		
7421-93-4	ENDRIN ALDEHYDE	ug/kg		
53494-70-5	ENDRIN KETONE	ug/kg		
58-89-9	GAMMA BHC (LINDANE)	ug/kg		
76-44-8	HEPTACHLOR	ug/kg		
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg		
72-43-5	METHOXYCHLOR	ug/kg		
72-54-8	P,P'-DDD	ug/kg		
72-55-9	P,P'-DDE	ug/kg		
50-29-3	P,P'-DDT	ug/kg		
8001-35-2	TOXAPHENE	ug/kg		
	PCBs			
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/kg		
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/kg		
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/kg		
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/kg		
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/kg		
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/kg		
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/kg		
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/kg		
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/kg		
	HERBICIDES			
94-75-7	2,4-D	ug/kg		
93-72-1	SILVEX (2,4,5-TP)	ug/kg		
1918-00-9	DICAMBA	ug/kg		
120-36-5	DICHLOROPROP	ug/kg		
88-85-7	DINoseb	ug/kg		
93-76-5	2,4,5-T	ug/kg		
94-82-6	2,4 DB	ug/kg		
	INORGANICS			
7429-90-5	ALUMINUM	mg/kg	3690	2910
7440-36-0	ANTIMONY	mg/kg	2.5 U	2.32 U
7440-38-2	ARSENIC	mg/kg	3.78	3.02
7440-39-3	BARIUM	mg/kg	22.8	28.6
7440-41-7	BERYLLIUM	mg/kg	0.244 J	0.2 J
7440-43-9	CADMIUM	mg/kg	0.215 J	0.154 J
7440-70-2	CALCIUM	mg/kg	39700	48300
7440-47-3	CHROMIUM, TOTAL	mg/kg	5.35	4.72
7440-48-4	COBALT	mg/kg	4.37	3.58
7440-50-8	COPPER	mg/kg	12	6.78
7439-89-6	IRON	mg/kg	10500	8670
7439-92-1	LEAD	mg/kg	5.84	4.56
7439-95-4	MAGNESIUM	mg/kg	12300	13900
7439-96-5	MANGANESE	mg/kg	259	255
7439-97-6	MERCURY	mg/kg	0.036	0.014 U
7440-02-0	NICKEL	mg/kg	11.9	8.71
7440-09-7	POTASSIUM	mg/kg	646	610
7782-49-2	SELENIUM	mg/kg	1 U	0.93 U
7440-22-4	SILVER	mg/kg	0.696	0.537
7440-23-5	SODIUM	mg/kg	137	128
7440-28-0	THALLIUM	mg/kg	2 U	1.86 U
7440-62-2	VANADIUM	mg/kg	8.11	7.68
7440-66-6	ZINC	mg/kg	45.7	32.8
57-12-5	CYANIDE	mg/kg	0.296 U	0.273 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-08 SB-08(10-12)-20151028 G4240-04 10 - 12 ft CTECH G4240 SO 10/28/2015 13:50 2/23/2016	SB-08 SB-08(18-20)-20151028 G4240-05 18 - 20 ft CTECH G4240 SO 10/28/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:		
	VOLATILE TICs			
UNKNOWN1	unknown1.38	ug/kg		
UNKNOWN1	unknown1.61	ug/kg		
UNKNOWN3	unknown3.11	ug/kg		
103-65-1	N-PROPYLBENZENE	ug/kg		
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
135-98-8	SEC-BUTYLBENZENE	ug/kg		
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg		
17301-23-4	2,6-Dimethylundecane	ug/kg		
17301-28-9	3,6-Dimethylundecane	ug/kg		
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg		
UNKNOWN14	unknown14.78	ug/kg		
UNKNOWN15	unknown15.22	ug/kg		
62108-24-1	2,6,6-Trimethyldecane	ug/kg		
62108-25-2	2,6,7-Trimethyldecane	ug/kg		
UNKNOWN15	unknown15.62	ug/kg		
UNKNOWN16	unknown16.14	ug/kg		
5617-41-4	Heptylcyclohexane	ug/kg		
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg		

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4240		Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-08 SB-08(10-12)-20151028 G4240-04 18 - 12 ft CTECH G4240 SO 10/28/2015 13:50 2/23/2016	SB-08 SB-08(18-20)-20151028 G4240-05 18 - 20 ft CTECH G4240 SO 10/28/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:		
	SEMIVOLATILE TICs			
110-54-3	N-HEXANE	ug/kg		
142-82-5	N-HEPTANE	ug/kg		
123-42-2	Diacetone Alcohol	ug/kg	R	R
1000123-86-3	Tranylcypromine-propionyl	ug/kg		
UNKNOWN6,unknown6.64		ug/kg		
UNKNOWN6,unknown6.65		ug/kg	4000 J	3500 J
1795-15-9	Octyl Cyclohexane	ug/kg		
50871-03-9	1-Decene, 3,4-dimethyl-	ug/kg		
5617-41-4	Heptylcyclohexane	ug/kg		
629-50-5	N-Tridecane	ug/kg		
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg		
575-43-9	1,6-Dimethylnaphthalene	ug/kg		
UNKNOWN10,unknown10.19		ug/kg		
UNKNOWN10,unknown10.49		ug/kg		
112-95-8	N-Eicosane	ug/kg		
1921-70-6	Norphytane	ug/kg	110 JN	
3892-00-0	2,6,10-Trimethylpentadecane	ug/kg		
4443-55-4	Eicosyl Cyclohexane	ug/kg		
544-76-3	N-Hexadecane	ug/kg		
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg		
55045-08-4	2-Methyl-6-Propyldodecane	ug/kg		
629-50-5	N-Tridecane	ug/kg		
629-59-4	N-Tetradecane	ug/kg		
629-62-9	Pentadecane	ug/kg		
629-78-7	Heptadecane	ug/kg		
74645-98-0	2,7,10-Trimethyl Dodecane	ug/kg		
13187-99-0	2-Bromo Dodecane	ug/kg		
295-17-0	Cyclotetradecane	ug/kg		
295-65-8	Cyclohexadecane	ug/kg		
35953-53-8	2-Tetradecene, (E)-	ug/kg		
57-10-3	HEXADECANOIC ACID	ug/kg	280 JN	170 JN
629-78-7	Heptadecane	ug/kg		
638-53-9	Tridecanoic Acid	ug/kg		
74685-29-3	(E)-9-Eicosene	ug/kg		
1002-84-2	Pentadecanoic Acid	ug/kg	110 JN	
111-06-8	Butyl Hexadecanoate	ug/kg		
112-95-8	N-Eicosane	ug/kg		
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg		
334-48-5	Decanoic Acid	ug/kg		
544-63-8	Tetradecanoic Acid	ug/kg		
57-11-4	Octadecanoic Acid	ug/kg		
629-01-6	Octanamide	ug/kg		
629-54-9	Hexadecanamide	ug/kg		
638-58-4	Tetradecanamide	ug/kg		
646-31-1	N-Tetracosane	ug/kg		
1000282-97-3	Heptafluorobutanoic Acid, Heptadecy	ug/kg		
123-95-5	N-Butyl Stearate	ug/kg		
1454-84-8	Nonadecanol	ug/kg		
18435-45-5	1-Nonadecene	ug/kg		260 JN
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg		
295-17-0	Cyclotetradecane	ug/kg		
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg		
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg	300 JN	
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg		
74685-29-3	(E)-9-Eicosene	ug/kg		
74685-30-6	5-Eicosene (E)-	ug/kg		
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg		
62016-79-9	1-Chloroheptacosane	ug/kg		
7683-64-9	Squalene	ug/kg		
112-92-5	1-Octadecanol	ug/kg		
1599-67-3	1-Docosene	ug/kg		
18435-45-5	1-Nonadecene	ug/kg		
5454-48-8	Bromoacetic acid, hexadecyl ester	ug/kg		
6971-40-0	17-Pentatriacontene	ug/kg		
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg		
295-48-7	Cyclopentadecaneáááááááá	ug/kg		

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6 U	6.9 UJ	5.8 U	8.2 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	6 U	6.9 UJ	5.8 U	8.2 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6 U	6.9 UJ	5.8 U	8.2 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6 U	6.9 UJ	5.8 U	8.2 U
106-93-4	1,2-DIBROMOETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6 U	6.9 UJ	5.8 U	8.2 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6 U	6.9 UJ	5.8 U	8.2 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6 U	6.9 UJ	5.8 U	8.2 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	120 UJ	140 U	120 U	160 U
591-78-6	2-HEXANONE	ug/kg	30 U	34.4 U	29 U	40.9 U
67-64-1	ACETONE	ug/kg	30 U	80.1	13.9 J	510
71-43-2	BENZENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
74-97-5	BROMOCHLOROMETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-25-2	BROMOFORM	ug/kg	6 U	6.9 U	5.8 U	8.2 U
74-83-9	BROMOMETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-15-0	CARBON DISULFIDE	ug/kg	1.9 J	3.9 J	5.8 U	12.4
56-23-5	CARBON TETRACHLORIDE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
108-90-7	CHLOROBENZENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-00-3	CHLOROETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
67-66-3	CHLOROFORM	ug/kg	6 U	6.9 U	5.8 U	8.2 U
74-87-3	CHLOROMETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
110-82-7	CYCLOHEXANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
100-41-4	ETHYLBENZENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6 U	6.9 UJ	5.8 U	8.2 U
179601-23-1	M,P-XYLENES	ug/kg	12 U	13.8 U	11.6 U	16.4 U
79-20-9	METHYL ACETATE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	30 U	34.4 U	29 U	87.9
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	30 U	34.4 U	29 U	40.9 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-09-2	METHYLENE CHLORIDE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
95-47-6	O-XYLENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
100-42-5	STYRENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6 U	6.9 U	5.8 U	8.2 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	6 U	6.9 U	5.8 U	8.2 U
108-88-3	TOLUENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6 U	6.9 U	5.8 U	8.2 U
75-01-4	VINYL CHLORIDE	ug/kg	6 U	6.9 U	5.8 U	8.2 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	400 U	450 U	380 U	540 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	400 U	450 U	380 U	540 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	400 U	450 U	380 U	540 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	400 U	450 U	380 U	540 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	400 U	450 U	380 U	540 U
51-28-5	2,4-DINITROPHENOL	ug/kg	400 U	450 U	380 U	540 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	400 U	450 U	380 U	540 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	400 U	450 U	380 U	540 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	400 U	450 U	380 U	540 U
95-57-8	2-CHLOROPHENOL	ug/kg	400 U	450 U	380 U	540 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	400 U	450 U	380 U	540 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	400 U	450 U	380 U	540 U
88-74-4	2-NITROANILINE	ug/kg	400 U	450 U	380 U	540 U
88-75-5	2-NITROPHENOL	ug/kg	400 U	450 U	380 U	540 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	400 U	450 U	380 U	540 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	400 U	450 U	380 U	540 U
99-09-2	3-NITROANILINE	ug/kg	400 U	450 U	380 U	540 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	400 U	450 U	380 U	540 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	400 U	450 U	380 U	540 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	400 U	450 U	380 U	540 U
106-47-8	4-CHLOROANILINE	ug/kg	400 U	450 U	380 U	540 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	400 U	450 U	380 U	540 U
100-01-6	4-NITROANILINE	ug/kg	400 U	450 U	380 U	540 U
100-02-7	4-NITROPHENOL	ug/kg	400 U	450 U	380 U	540 U
83-32-9	ACENAPHTHENE	ug/kg	400 U	450 U	380 U	540 U
208-96-8	ACENAPHTHYLENE	ug/kg	400 U	450 U	380 U	540 U
98-86-2	ACETOPHENONE	ug/kg	400 U	450 U	380 U	540 U
120-12-7	ANTHRACENE	ug/kg	400 U	450 U	380 U	540 U
1912-24-9	ATRAZINE	ug/kg	400 U	450 U	380 U	540 U
100-52-7	BENZALDEHYDE	ug/kg	400 U	450 U	380 U	540 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	400 U	450 U	380 U	540 U
50-32-8	BENZO(A)PYRENE	ug/kg	400 U	450 U	380 U	540 U
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	400 U	450 U	380 U	540 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	400 U	450 U	380 U	540 U
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	400 U	450 U	380 U	540 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	400 U	450 U	380 U	540 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	400 U	450 U	380 U	540 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	400 U	450 U	380 U	540 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	400 U	450 U	380 U	540 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	400 U	450 U	380 U	540 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	400 U	450 U	380 U	540 U
105-60-2	CAPROLACTAM	ug/kg	400 U	450 U	380 U	540 U
86-74-8	CARBAZOLE	ug/kg	400 U	450 U	380 U	540 U
218-01-9	CHRYSENE	ug/kg	400 U	450 U	380 U	540 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	400 U	450 U	380 U	540 U
132-64-9	DIBENZOFURAN	ug/kg	400 U	450 U	380 U	540 U
84-66-2	DIETHYL PHTHALATE	ug/kg	400 U	450 U	380 U	540 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	850	650	350 J	640
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	400 U	450 U	380 U	540 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	400 U	450 U	380 U	540 U
206-44-0	FLUORANTHENE	ug/kg	400 U	450 U	380 U	540 U
86-73-7	FLUORENE	ug/kg	400 U	450 U	380 U	540 U
118-74-1	HEXACHLOROBENZENE	ug/kg	400 U	450 U	380 U	540 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	400 U	450 U	380 U	540 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	400 U	450 U	380 U	540 U
67-72-1	HEXACHLOROETHANE	ug/kg	400 U	450 U	380 U	540 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	400 UJ	450 UJ	380 UJ	540 UJ
78-59-1	ISOPHORONE	ug/g	400 U	450 U	380 U	540 U
91-20-3	NAPHTHALENE	ug/kg	400 U	450 U	380 U	540 U
98-95-3	NITROBENZENE	ug/kg	400 U	450 U	380 U	540 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	400 U	450 U	380 U	540 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	400 U	450 U	380 U	540 U
87-86-5	PENTACHLOROPHENOL	ug/kg	400 U	450 U	380 U	540 U
85-01-8	PHENANTHRENE	ug/kg	400 U	450 U	380 U	540 U
108-95-2	PHENOL	ug/kg	400 U	450 U	380 U	540 U
129-00-0	PYRENE	ug/kg	400 U	450 U	380 U	540 U
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	400 U	450 U	380 U	540 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/kg				2.8 U
319-84-6	ALPHA BHC	ug/kg				2.8 U
959-98-8	ALPHA ENDOSULFAN	ug/kg				2.8 U
5103-71-9	ALPHA-CHLORDANE	ug/kg				2.8 U
319-85-7	BETA BHC	ug/kg				2.8 U
33213-65-9	BETA ENDOSULFAN	ug/kg				2.8 U
5103-74-2	BETA-CHLORDANE	ug/kg				2.8 U
319-86-8	DELTA BHC	ug/kg				2.8 U
60-57-1	DIELDRIN	ug/kg				2.8 U
1031-07-8	ENDOSULFAN SULFATE	ug/kg				2.8 U
72-20-8	ENDRIN	ug/kg				2.8 U
7421-93-4	ENDRIN ALDEHYDE	ug/kg				2.8 U
53494-70-5	ENDRIN KETONE	ug/kg				2.8 U
58-89-9	GAMMA BHC (LINDANE)	ug/kg				2.8 U
76-44-8	HEPTACHLOR	ug/kg				2.8 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg				2.8 U
72-43-5	METHOXYCHLOR	ug/kg				2.8 U
72-54-8	P,P'-DDD	ug/kg				2.8 U
72-55-9	P,P'-DDE	ug/kg				2.8 U
50-29-3	P,P'-DDT	ug/kg				2.8 U
8001-35-2	TOXAPHENE	ug/kg				27.6 U
	PCBs					
12674-11-2	PCB-1016 (AROCOR 1016)	ug/kg				27.6 U
11104-28-2	PCB-1221 (AROCOR 1221)	ug/kg				27.6 U
11141-16-5	PCB-1232 (AROCOR 1232)	ug/kg				27.6 U
53469-21-9	PCB-1242 (AROCOR 1242)	ug/kg				27.6 U
12672-29-6	PCB-1248 (AROCOR 1248)	ug/kg				27.6 U
11097-69-1	PCB-1254 (AROCOR 1254)	ug/kg				27.6 U
11096-82-5	PCB-1260 (AROCOR 1260)	ug/kg				27.6 U
37324-23-5	PCB-1262 (AROCOR 1262)	ug/kg				27.6 U
11100-14-4	PCB-1268 (AROCOR 1268)	ug/kg				27.6 U
	HERBICIDES					
94-75-7	2,4-D	ug/kg				110 U
93-72-1	SILVEX (2,4,5-TP)	ug/kg				110 U
1918-00-9	DICAMBA	ug/kg				110 U
120-36-5	DICHLOROPROP	ug/kg				110 U
88-85-7	DINOSB	ug/kg				110 U
93-76-5	2,4,5-T	ug/kg				110 U
94-82-6	2,4 DB	ug/kg				110 U
	INORGANICS					
7429-90-5	ALUMINUM	mg/kg	3430	6870	2800	8920
7440-36-0	ANTIMONY	mg/kg	2.52 U	2.97 U	2.36 U	3.31 U
7440-38-2	ARSENIC	mg/kg	3.65	5.56	3.02	4.27
7440-39-3	BARIUM	mg/kg	31.1	69.3	19.7	81.2
7440-41-7	BERYLLIUM	mg/kg	0.249 J	0.493	0.199 J	0.53
7440-43-9	CADMIUM	mg/kg	0.2 J	0.359	0.177 J	0.098 J
7440-70-2	CALCIUM	mg/kg	61200	49200	40400	4910
7440-47-3	CHROMIUM, TOTAL	mg/kg	5.61	9.49	4.8	12.8
7440-48-4	COBALT	mg/kg	4.06	7.06	3.33	5.02
7440-50-8	COPPER	mg/kg	8.42	10.27	9.99	13.4
7439-89-6	IRON	mg/kg	10600	19400	8470	20500
7439-92-1	LEAD	mg/kg	8.26	14.1	5.35	16.6
7439-95-4	MAGNESIUM	mg/kg	16800	4440	10800	2490
7439-96-5	MANGANESE	mg/kg	274	246	216	153
7439-97-6	MERCURY	mg/kg	0.017 U	0.032	0.015 U	0.051
7440-02-0	NICKEL	mg/kg	10.56	18.5	9.11	16.8
7440-09-7	POTASSIUM	mg/kg	760	827	509	744
7782-49-2	SELENIUM	mg/kg	1.01 U	1.19 U	0.945 U	1.32 U
7440-22-4	SILVER	mg/kg	0.638	1.22	0.513	1.38
7440-23-5	SODIUM	mg/kg	171	239	142	373
7440-28-0	THALLIUM	mg/kg	2.01 U	2.37 U	1.89 U	2.65 U
7440-62-2	VANADIUM	mg/kg	9.65	14.6	7.41	16.6
7440-66-6	ZINC	mg/kg	39	86.8	44.5	124
57-12-5	CYANIDE	mg/kg	0.287 U	0.334 U	0.274 U	0.395 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES TICs					
54758-36-0	(1-Methylbuta-1,3-dienyl)benzene	ug/kg				19.1 JN
70588-46-4	(1-Methylenebut-2-enyl)benzene	ug/kg				
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/kg				
563-58-6	1,1-DICHLOROPROPENE	ug/kg				
590-66-9	1,1-Dimethylcyclohexane	ug/kg				
4175-54-6	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	ug/kg				26.4 JN
96-18-4	1,2,3-TRICHLOROPROPANE	ug/kg				
526-73-8	1,2,3-Trimethyl Benzene	ug/kg				
95-93-2	1,2,4,5-Tetramethylbenzene	ug/kg				
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg				
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg				
21195-59-5	1,3,8-P-Menthatriene	ug/kg				
142-28-9	1,3-DICHLOROPROPANE	ug/kg				
2050-24-0	1,3-Diethyl-5-Methylbenzene	ug/kg				
2177-48-2	1,3-Dimethyl-1H-Indene	ug/kg				
50704-01-3	1,3-Dimethyl-2-Butenyl-Benzene	ug/kg				30.5 JN
2131-41-1	1,4,5-Trimethylnaphthalene	ug/kg				
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg				
575-37-1	1,7-Dimethyl Naphthalene	ug/kg				
51783-46-1	1-Ethenyl-2,3-Dihydro-1H-Indene	ug/kg				
874-35-1	1H-Indene 2,3-Dihydro-5-Methyl-	ug/kg				
6682-71-9	1H-Indene, 2,3-Dihydro-4,7-Dimethyl-	ug/kg				33.7 JN
1587-04-8	1-Methyl-2(2-Propenyl)-Benzene	ug/kg				
1074-17-5	1-Methyl-2-Propylbenzene	ug/kg				
90-12-0	1-Methylnaphthalene	ug/kg			8.1 JN	
829-26-5	2,3,6-Trimethylnaphthalene	ug/kg				
1685-82-1	2,3-Dihydro-4,6-Dimethyl-1H-Indene	ug/kg				20.9 JN
581-40-8	2,3-Dimethyl Naphthalene	ug/kg				
4773-82-4	2,3-Dimethyl-1H-Indene	ug/kg				
638-36-8	2,6,10,14-Tetramethylhexadecane	ug/kg			5.8 JN	
31295-56-4	2,6,11-Trimethyldodecane	ug/kg				
581-42-0	2,6-Dimethyl-Napthalene	ug/kg				
17301-23-4	2,6-Dimethylundecane	ug/kg				
582-16-1	2,7-Dimethyl Naphthalene	ug/kg			9.1 JN	
95-49-8	2-CHLOROTOLUENE	ug/kg				
769-25-5	2-Ethenyl-1,3,5-Trimethylbenzene	ug/kg				
939-27-5	2-Ethyl naphthalene	ug/kg				20 JN
4110-44-5	3,3-Dimethyloctane	ug/kg				
934-74-7	3,5-Dimethyl-1-Ethylbenzene	ug/kg				
767-60-2	3-Methyl-1H-Indene	ug/kg				
941-81-1	4,6,8-Trimethylazulene	ug/kg				
106-43-4	4-CHLOROTOLUENE	ug/kg				
622-96-8	4-ETHYLTOLUENE	ug/kg				
2847-72-5	4-Methyl Decane	ug/kg				
1000192-41-3	4-Methyl-dodecan-1-ol	ug/kg				
17615-91-7	5,6-Dimethyl Undecane	ug/kg				
13151-35-4	5-Methyldecane	ug/kg				
1680-51-9	6-Methyltetralin	ug/kg				
107-13-1	ACRYLONITRILE	ug/kg				
628-63-7	Amyl Acetate (Mixed Isomers)	ug/kg				
4706-90-5	Benzene, 1,3-dimethyl-5-(1-methyle	ug/kg				
1560-06-1	Benzene, 2-Butenyl	ug/kg				
16587-48-7	Benzo[b]thiophene, 2,5-dimethyl-	ug/kg				
14315-14-1	Benzo[b]thiophene, 5-methyl-	ug/kg				
108-86-1	BROMOBENZENE	ug/kg				
638-04-0	cis-1,3-Dimethylcyclohexane	ug/kg				
61142-20-9	Cyclohexane, (4-Methylpentyl)-	ug/kg			6 JN	
6783-92-2	Cyclohexane, 1,1,2,3-Tetramethyl-	ug/kg				
54411-01-7	Cyclohexane, 1-methyl-2-pent	ug/kg				
99-87-6	CYMENE	ug/kg				
5359-04-6	Ethanone, 1-[4-(1-methylethenyl)phenyl]-	ug/kg				18 JN
141-78-6	ETHYL ACETATE	ug/kg				
67-72-1	HEXACHLOROETHANE	ug/kg				
108-21-4	Isopropyl Acetate	ug/kg				
108-20-3	Isopropyl Ether	ug/kg				
80-62-6	METHYL METHACRYLATE	ug/kg				
126-98-7	METHYLACRYLONITRILE	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES TICs					
104-51-8	N-BUTYLBENZENE	ug/kg				
112-40-3	N-Dodecane	ug/kg			14 JN	
103-65-1	N-PROPYLBENZENE	ug/kg				
91-20-3	NAPHTHALENE	ug/kg				
527-84-4	O-Cymene (O-Isopropyltoluene)	ug/kg				
135-98-8	SEC-BUTYLBENZENE	ug/kg				
98-06-6	T-BUTYLBENZENE	ug/kg				
75-65-0	TERT-BUTYL ALCOHOL	ug/kg				
119-64-2	Tetralin	ug/kg				
110-01-0	Thiophene, tetrahydro-	ug/kg				
110-57-6	TRANS-1,4-DICHLORO-2-BUTENE	ug/kg		40 JN		
493-02-7	Trans-Decahydro-Naphthalene	ug/kg				
UNKNOWN-01	unknown-01	ug/kg				
UNKNOWN12	unknown12.78	ug/kg				
UNKNOWN13	unknown13.80	ug/kg			6.4 J	
UNKNOWN15	unknown15.34	ug/kg				16.7 J

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
301-02-0	(Z)-9-Octadecanimide	ug/kg			140 JN	
13065-07-1	1,2,3,4-Tetrahydro-2,7-Dimethyl Naphthalene	ug/kg				
526-73-8	1,2,3-Trimethyl Benzene	ug/kg				
95-93-2	1,2,4,5-Tetramethylbenzene	ug/kg				
141-93-5	1,3-Diethyl Benzene	ug/kg				
2131-42-2	1,4,6-Trimethylnaphthalene	ug/kg				
571-61-9	1,5-Dimethyl Naphthalene	ug/kg				
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg				
575-43-9	1,6-Dimethylnaphthalene	ug/kg				
1599-67-3	1-Docosene	ug/kg				
1127-76-0	1-Ethyl Naphthalene	ug/kg				
77899-03-7	1-Heneicosyl formate	ug/kg				
629-73-2	1-Hexadecene	ug/kg			490 JN	
2051-33-4	1-Hexanol, 5-methyl-2-(1-methyleth	ug/kg				
203-80-5	1H-Phenylene	ug/kg				
1730-37-6	1-Methylfluorene	ug/kg				
18435-45-5	1-Nonadecene	ug/kg				
629-76-5	1-Pentadecanol	ug/kg				
1000292-44-2	2- Bromopropionic Acid, Pentadecyl Ester	ug/kg				
829-26-5	2,3,6-Trimethylnaphthalene	ug/kg				
6117-98-2	2,3-Dimethyldodecane	ug/kg				
62108-23-0	2,5,6-Trimethyldecane	ug/kg				
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg				
638-36-8	2,6,10,14-Tetramethylhexadecane	ug/kg				
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg				
31295-56-4	2,6,11-Trimethyldodecane	ug/kg				
2051-30-1	2,6-Dimethyl Octane	ug/kg				
4057-42-5	2,6-Dimethyl-2-Octene	ug/kg				
17301-23-4	2,6-Dimethylundecane	ug/kg				
55045-07-3	2-Methyl-8-Propyl-Dodecane	ug/kg				
3221-61-2	2-Methyloctane	ug/kg				
2531-84-2	2-Methylphenanthrene	ug/kg				
2136-70-1	2-Tetradecoxyethanol	ug/kg			190 JN	
17312-55-9	3,8-Dimethyldecane	ug/kg				
832-71-3	3-Methyl Phenanthrene	ug/kg				
5911-04-6	3-Methylnonane	ug/kg				
96168-15-9	4,8,12,16-Tetramethylheptadecan-4-	ug/kg			100 JN	
2216-32-2	4-Ethyl-Heptane	ug/kg				
203-64-5	4H-Cyclopenta[Def]Phenanthrene	ug/kg				
644-08-6	4-Methyl-Biphenyl	ug/kg				
7320-53-8	4-Methyldibenzofuran	ug/kg				
17301-94-9	4-Methyl-Nonane	ug/kg				
17312-63-9	5-Butylnonane	ug/kg				
74685-30-6	5-Eicosene (E)-	ug/kg				380 JN
1430-97-3	9H-Fluorene, 2-Methyl-	ug/kg				
16587-40-9	Benzo[b]thiophene, 2,7-dimethyl-	ug/kg				
264-09-5	Benzocycloheptatrieneáá	ug/kg				
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg	190 JN			
61142-20-9	Cyclohexane, (4-Methylpentyl)-	ug/kg				
6783-92-2	Cyclohexane, 1,1,2,3-Tetramethyl-	ug/kg				
295-17-0	Cyclotetradecane	ug/kg			120 JN	
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg				
334-48-5	Decanoic Acid	ug/kg				
123-42-2	Diacetone Alcohol	ug/kg	R	R	R	R
132-65-0	Dibenzothiophene (Synfuel)	ug/kg				
12-95-8	Eicosane	ug/kg	130 JN			
54833-23-7	EICOSANE, 10-METHYL-	ug/kg				
629-94-7	Heneicosane	ug/kg				
629-78-7	Heptadecane	ug/kg			85.5 JN	
13287-23-5	Heptadecane, 8-Methyl-á	ug/kg				
1000282-97-3	Heptafluorobutanoic Acid, Heptadecy	ug/kg				
57-10-3	HEXADECANOIC ACID	ug/kg	200 JN	240 JN	110 JN	210 JN
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg				
36653-82-4	Hexadecanol	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-02 SB-02(14-16)-20151029 G4241-08 14 - 16 ft CTECH G4241 SO 10/29/2015 14:50 2/23/2016	SB-09 SB-09(12-14)-20151030 G4241-15 12 - 14 ft CTECH G4241 SO 10/30/2015 10:50 2/23/2016	SB-09 SB-09(18-20)-20151030 G4241-16 18 - 20 ft CTECH G4241 SO 10/30/2015 10:55 2/23/2016	SB-10 SB-10(2-4)-20151030 G4241-13 2 - 4 ft CTECH G4241 SO 10/30/2015 9:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
629-97-0	N-Docosane	ug/kg				
112-95-8	N-Eicosane	ug/kg				
544-76-3	N-Hexadecane	ug/kg				
110-54-3	N-HEXANE	ug/kg				
593-45-3	N-Octadecane	ug/kg				
1120-07-6	Nonanamide	ug/kg				
1921-70-6	Norphytane	ug/kg				
646-31-1	N-Tetracosane	ug/kg				
629-59-4	N-Tetradecane	ug/kg				
629-50-5	N-Tridecane	ug/kg				
1120-21-4	N-Undecane	ug/kg				
57-11-4	Octadecanoic Acid	ug/kg	150 JN			
1795-15-9	Octyl Cyclohexane	ug/kg				
527-84-4	O-Cymene (O-Isopropyltoluene)	ug/kg				
629-62-9	Pentadecane	ug/kg			94.7 JN	
1002-84-2	Pentadecanoic Acid	ug/kg		110 JN		
4292-92-6	Pentyl-cyclohexane	ug/kg				
88104-31-8	Propanoic Acid, 2-Chloro-, Octadecyl Ester	ug/kg				
7683-64-9	Squalene	ug/kg		150 JN		
544-63-8	Tetradecanoic Acid	ug/kg				
493-02-7	Trans-Decahydro-Naphthalene	ug/kg				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg		260 JN		
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg				
UNKNOWN2	unknown2.20	ug/kg			110 J	
UNKNOWN6	unknown6.12	ug/kg				
UNKNOWN6	unknown6.14	ug/kg				
UNKNOWN6	unknown6.33	ug/kg				
UNKNOWN6	unknown6.62	ug/kg			2200 J	4100 J
UNKNOWN6	unknown6.64	ug/kg				
UNKNOWN6	unknown6.65	ug/kg				
UNKNOWN6	unknown6.66	ug/kg	4500 J			
UNKNOWN7	unknown7.21	ug/kg				
UNKNOWN7	unknown7.54	ug/kg				
UNKNOWN9	unknown9.38	ug/kg				
UNKNOWN10	unknown10.32	ug/kg				
UNKNOWN10	unknown10.34	ug/kg				
UNKNOWN12	unknown12.05	ug/kg				
UNKNOWN12	unknown12.44	ug/kg				
UNKNOWN12	unknown12.74	ug/kg				
UNKNOWN13	unknown13.54	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6.2 U	6.1 U	6 U	3.6 J
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6.2 U	6.1 U	6 U	2.1 J
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6.2 U	6.1 U	6 U	1.9 J
75-34-3	1,1-DICHLOROETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	6.2 U	6.1 U	6 U	2.4 J
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6.2 U	6.1 U	6 U	1.6 J
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6.2 U	6.1 U	6 U	4.9 J
106-93-4	1,2-DIBROMOETHANE	ug/kg	6.2 U	6.1 U	6 U	1.5 J
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6.2 U	6.1 U	6 U	3.1 J
107-06-2	1,2-DICHLOROETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6.2 U	6.1 U	6 U	1.6 J
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6.2 U	6.1 U	6 U	2.4 J
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6.2 U	6.1 U	6 U	2.6 J
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	120 U	120 UJ	120 U	140 U
591-78-6	2-HEXANONE	ug/kg	30.9 U	30.3 U	30.1 U	14 J
67-64-1	ACETONE	ug/kg	26.9 J	30.3	12.2 J	320
71-43-2	BENZENE	ug/kg	6.2 U	6.1 U	6 U	4.5 J
74-97-5	BROMOCHLOROMETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
75-25-2	BROMOFORM	ug/kg	6.2 U	6.1 U	6 U	1.9 J
74-83-9	BROMOMETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
75-15-0	CARBON DISULFIDE	ug/kg	1.6 J	6.1 U	6 U	6.9 J
56-23-5	CARBON TETRACHLORIDE	ug/kg	6.2 U	6.1 U	6 U	1.8 J
108-90-7	CHLOROBENZENE	ug/kg	6.2 U	6.1 U	6 U	1.9 J
75-00-3	CHLOROETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
67-66-3	CHLOROFORM	ug/kg	6.2 U	6.1 U	6 U	7.2 U
74-87-3	CHLOROMETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
110-82-7	CYCLOHEXANE	ug/kg	6.2 U	6.1 U	6 U	4.7 J
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6.2 U	6.1 U	6 U	1.7 J
100-41-4	ETHYLBENZENE	ug/kg	6.2 U	6.1 U	6 U	2.5 J
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6.2 U	6.1 U	6 U	3.9 J
179601-23-1	M,P-XYLENES	ug/kg	12.3 U	12.1 U	1.5 J	5.5 J
79-20-9	METHYL ACETATE	ug/kg	6.2 U	6.1 U	6 U	5.7 J
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	30.9 U	30.3 U	30.1 U	58.3
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	30.9 U	30.3 U	30.1 U	15.2 J
108-87-2	METHYLCYCLOHEXANE	ug/kg	6.2 U	6.1 U	6 U	8.8
75-09-2	METHYLENE CHLORIDE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
95-47-6	O-XYLENE	ug/kg	6.2 U	6.1 U	6 U	2.9 J
100-42-5	STYRENE	ug/kg	6.2 U	6.1 U	6 U	1.7 J
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6.2 U	6.1 U	6 U	2 J
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	6.2 U	6.1 U	6 U	2.9 J
108-88-3	TOLUENE	ug/kg	4.9 J	6.1 U	3.8 J	3 J
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6.2 U	6.1 U	6 U	1.7 J
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6.2 U	6.1 U	6 U	7.2 U
75-01-4	VINYL CHLORIDE	ug/kg	6.2 U	6.1 U	6 U	7.2 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	410 U	400 U	400 U	470 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	410 U	400 U	400 U	470 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	410 U	400 U	400 U	470 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	410 U	400 U	400 U	470 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	410 U	400 U	400 U	470 U
51-28-5	2,4-DINITROPHENOL	ug/kg	410 U	400 U	400 U	470 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	410 U	400 U	400 U	470 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	410 U	400 U	400 U	470 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	410 U	400 U	400 U	470 U
95-57-8	2-CHLOROPHENOL	ug/kg	410 U	400 U	400 U	470 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	410 U	400 U	400 U	470 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	410 U	400 U	400 U	470 U
88-74-4	2-NITROANILINE	ug/kg	410 U	400 U	400 U	470 U
88-75-5	2-NITROPHENOL	ug/kg	410 U	400 U	400 U	470 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	410 U	400 U	400 U	470 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	410 U	400 U	400 U	470 U
99-09-2	3-NITROANILINE	ug/kg	410 U	400 U	400 U	470 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	410 U	400 U	400 U	470 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	410 U	400 U	400 U	470 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	410 U	400 U	400 U	470 U
106-47-8	4-CHLOROANILINE	ug/kg	410 U	400 U	400 U	470 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	410 U	400 U	400 U	470 U
100-01-6	4-NITROANILINE	ug/kg	410 U	400 U	400 U	470 U
100-02-7	4-NITROPHENOL	ug/kg	410 U	400 U	400 U	470 U
83-32-9	ACENAPHTHENE	ug/kg	410 U	520	400 U	470 U
208-96-8	ACENAPHTHYLENE	ug/kg	410 U	140 J	400 U	470 U
98-86-2	ACETOPHENONE	ug/kg	410 U	400 U	400 U	470 U
120-12-7	ANTHRACENE	ug/kg	410 U	140 J	400 U	470 U
1912-24-9	ATRAZINE	ug/kg	410 U	400 U	400 U	470 U
100-52-7	BENZALDEHYDE	ug/kg	410 U	400 U	400 U	470 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	410 U	400 U	400 U	470 U
50-32-8	BENZO(A)PYRENE	ug/kg	410 U	400 U	400 U	470 U
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	410 U	400 U	400 U	470 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	410 U	400 U	400 U	470 U
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	410 U	400 U	400 U	470 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	410 U	400 U	400 U	470 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	410 U	180 J	400 U	470 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	410 U	400 U	400 U	470 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	410 U	400 U	400 U	470 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	410 U	400 U	400 U	470 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	410 U	400 U	400 U	470 U
105-60-2	CAPROLACTAM	ug/kg	410 U	400 U	400 U	470 U
86-74-8	CARBAZOLE	ug/kg	410 U	400 U	400 U	470 U
218-01-9	CHRYSENE	ug/kg	410 U	400 U	400 U	470 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	410 U	400 U	400 U	470 U
132-64-9	DIBENZOFURAN	ug/kg	410 U	400 U	400 U	470 U
84-66-2	DIETHYL PHTHALATE	ug/kg	410 U	400 U	400 U	470 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	570	530	610	780
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	410 U	400 U	400 U	470 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	410 U	400 U	400 U	470 U
206-44-0	FLUORANTHENE	ug/kg	410 U	400 U	400 U	470 U
86-73-7	FLUORENE	ug/kg	410 U	1100	400 U	470 U
118-74-1	HEXACHLOROBENZENE	ug/kg	410 U	400 U	400 U	470 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	410 U	400 U	400 U	470 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	410 U	400 U	400 U	470 U
67-72-1	HEXACHLOROETHANE	ug/kg	410 U	400 U	400 U	470 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	410 UJ	400 UJ	400 UJ	470 UJ
78-59-1	ISOPHORONE	ug/kg	410 U	400 U	400 U	470 U
91-20-3	NAPHTHALENE	ug/kg	410 U	400 U	400 U	470 U
98-95-3	NITROBENZENE	ug/kg	410 U	400 U	400 U	470 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	410 U	400 U	400 U	470 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	410 U	400 U	400 U	470 U
87-86-5	PENTACHLOROPHENOL	ug/kg	410 U	400 U	400 U	470 U
85-01-8	PHENANTHRENE	ug/kg	410 U	210 J	400 U	470 U
108-95-2	PHENOL	ug/kg	410 U	400 U	400 U	470 U
129-00-0	PYRENE	ug/kg	410 U	400 U	400 U	470 U
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	410 U	400 U	400 U	470 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/kg		2 U		2.4 U
319-84-6	ALPHA BHC	ug/kg		2 U		2.4 U
959-98-8	ALPHA ENDOSULFAN	ug/kg		2 U		2.4 U
5103-71-9	ALPHA-CHLORDANE	ug/kg		2 U		2.4 U
319-85-7	BETA BHC	ug/kg		2 U		2.4 U
33213-65-9	BETA ENDOSULFAN	ug/kg		2 U		2.4 U
5103-74-2	BETA-CHLORDANE	ug/kg		2 U		2.4 U
319-86-8	DELTA BHC	ug/kg		2 U		2.4 U
60-57-1	DIELDRIN	ug/kg		2 U		2.4 U
1031-07-8	ENDOSULFAN SULFATE	ug/kg		2 U		2.4 U
72-20-8	ENDRIN	ug/kg		2 U		2.4 U
7421-93-4	ENDRIN ALDEHYDE	ug/kg		2 U		2.4 U
53494-70-5	ENDRIN KETONE	ug/kg		2 U		2.4 U
58-89-9	GAMMA BHC (LINDANE)	ug/kg		2 U		2.4 U
76-44-8	HEPTACHLOR	ug/kg		2 U		2.4 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg		2 U		2.4 U
72-43-5	METHOXYCHLOR	ug/kg		2 U		2.4 U
72-54-8	P,P'-DDD	ug/kg		2 U		2.4 U
72-55-9	P,P'-DDE	ug/kg		2 U		2.4 U
50-29-3	P,P'-DDT	ug/kg		2 U		2.4 U
8001-35-2	TOXAPHENE	ug/kg		20.4 U		24.4 U
	PCBs					
12674-11-2	PCB-1016 (AROCOR 1016)	ug/kg		20.4 U		24.4 U
11104-28-2	PCB-1221 (AROCOR 1221)	ug/kg		20.4 U		24.4 U
11141-16-5	PCB-1232 (AROCOR 1232)	ug/kg		20.4 U		24.4 U
53469-21-9	PCB-1242 (AROCOR 1242)	ug/kg		20.4 U		24.4 U
12672-29-6	PCB-1248 (AROCOR 1248)	ug/kg		20.4 U		24.4 U
11097-69-1	PCB-1254 (AROCOR 1254)	ug/kg		20.4 U		24.4 U
11096-82-5	PCB-1260 (AROCOR 1260)	ug/kg		20.4 U		24.4 U
37324-23-5	PCB-1262 (AROCOR 1262)	ug/kg		20.4 U		24.4 U
11100-14-4	PCB-1268 (AROCOR 1268)	ug/kg		20.4 U		24.4 U
	HERBICIDES					
94-75-7	2,4-D	ug/kg		80.6 U		96.3 U
93-72-1	SILVEX (2,4,5-TP)	ug/kg		80.6 U		96.3 U
1918-00-9	DICAMBA	ug/kg		80.6 U		96.3 U
120-36-5	DICHLOROPROP	ug/kg		80.6 U		96.3 U
88-85-7	DINOSB	ug/kg		80.6 U		96.3 U
93-76-5	2,4,5-T	ug/kg		80.6 U		96.3 U
94-82-6	2,4 DB	ug/kg		80.6 U		96.3 U
	INORGANICS					
7429-90-5	ALUMINUM	mg/kg	2090	5230	1970	7770
7440-36-0	ANTIMONY	mg/kg	2.56 U	2.49 U	2.48 U	3.01 U
7440-38-2	ARSENIC	mg/kg	2.4	6.94	2.46	5.89
7440-39-3	BARIUM	mg/kg	20.3	29.7	18	96
7440-41-7	BERYLLIUM	mg/kg	0.148 J	0.393	0.137 J	0.612
7440-43-9	CADMIUM	mg/kg	0.133 J	0.115 J	0.105 J	0.378
7440-70-2	CALCIUM	mg/kg	39800	2730	36800	6650
7440-47-3	CHROMIUM, TOTAL	mg/kg	3.36	8.56	4.27	10.27
7440-48-4	COBALT	mg/kg	2.35	7.05	2.24	6.91
7440-50-8	COPPER	mg/kg	5.67	17.4	6.86	17.7
7439-89-6	IRON	mg/kg	6020	16700	5890	17400
7439-92-1	LEAD	mg/kg	2.73	13	3.16	21.8
7439-95-4	MAGNESIUM	mg/kg	10900	2610	11900	2080
7439-96-5	MANGANESE	mg/kg	174	161	179	105
7439-97-6	MERCURY	mg/kg	0.015 U	0.011 J	0.015 U	0.039
7440-02-0	NICKEL	mg/kg	6.93	20.3	6.04	19.8
7440-09-7	POTASSIUM	mg/kg	512	694	446	726
7782-49-2	SELENIUM	mg/kg	1.02 U	0.997 U	0.992 U	1.2 U
7440-22-4	SILVER	mg/kg	0.35 J	1.14	0.337 J	1.17
7440-23-5	SODIUM	mg/kg	114	157	129	421
7440-28-0	THALLIUM	mg/kg	2.05 U	1.99 U	1.98 U	2.41 U
7440-62-2	VANADIUM	mg/kg	5.75	11.7	6.01	14.2
7440-66-6	ZINC	mg/kg	36.9	72.9	39.9	110
57-12-5	CYANIDE	mg/kg	0.295 U	0.299 U	0.288 U	0.33 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES TICs					
54758-36-0	(1-Methylbuta-1,3-dienyl)benzene	ug/kg				
70588-46-4	(1-Methylenebut-2-enyl)benzene	ug/kg		17.5 JN		
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/kg				2.2 JN
563-58-6	1,1-DICHLOROPROPENE	ug/kg				1.8 JN
590-66-9	1,1-Dimethylcyclohexane	ug/kg				
4175-54-6	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	ug/kg				
96-18-4	1,2,3-TRICHLOROPROPANE	ug/kg				4 JN
526-73-8	1,2,3-Trimethyl Benzene	ug/kg				
95-93-2	1,2,4,5-Tetramethylbenzene	ug/kg				
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg				5.3 JN
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg				4.3 JN
21195-59-5	1,3,8-P-Menthatriene	ug/kg				
142-28-9	1,3-DICHLOROPROPANE	ug/kg				1.5 JN
2050-24-0	1,3-Diethyl-5-Methylbenzene	ug/kg				
2177-48-2	1,3-Dimethyl-1H-Indene	ug/kg		21.7 JN		
50704-01-3	1,3-Dimethyl-2-Butenyl-Benzene	ug/kg				
2131-41-1	1,4,5-Trimethylnaphthalene	ug/kg				
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg				10.2 JN
575-37-1	1,7-Dimethyl Naphthalene	ug/kg				
51783-46-1	1-Ethenyl-2,3-Dihydro-1H-Indene	ug/kg		24.3 JN		
874-35-1	1H-Indene 2,3-Dihydro-5-Methyl-	ug/kg				
6682-71-9	1H-Indene, 2,3-Dihydro-4,7-Dimethyl-	ug/kg				
1587-04-8	1-Methyl-2(2-Propenyl)-Benzene	ug/kg				
1074-17-5	1-Methyl-2-Propylbenzene	ug/kg				
90-12-0	1-Methylnaphthalene	ug/kg				
829-26-5	2,3,6-Trimethylnaphthalene	ug/kg				11.2 JN
1685-82-1	2,3-Dihydro-4,6-Dimethyl-1H-Indene	ug/kg				
581-40-8	2,3-Dimethyl Naphthalene	ug/kg				7.4 JN
4773-82-4	2,3-Dimethyl-1H-Indene	ug/kg		28.6 JN		
638-36-8	2,6,10,14-Tetramethylhexadecane	ug/kg				
31295-56-4	2,6,11-Trimethyldodecane	ug/kg				14.6 JN
581-42-0	2,6-Dimethyl-Napthalene	ug/kg				
17301-23-4	2,6-Dimethylundecane	ug/kg				
582-16-1	2,7-Dimethyl Naphthalene	ug/kg				
95-49-8	2-CHLOROTOLUENE	ug/kg				3.7 JN
769-25-5	2-Ethenyl-1,3,5-Trimethylbenzene	ug/kg		20 JN		
939-27-5	2-Ethyl-naphthalene	ug/kg		21 JN		
4110-44-5	3,3-Dimethyloctane	ug/kg				
934-74-7	3,5-Dimethyl-1-Ethylbenzene	ug/kg				
767-60-2	3-Methyl-1H-Indene	ug/kg				
941-81-1	4,6,8-Trimethylazulene	ug/kg				
106-43-4	4-CHLOROTOLUENE	ug/kg				2.6 JN
622-96-8	4-ETHYLTOLUENE	ug/kg				
2847-72-5	4-Methyl Decane	ug/kg				
1000192-41-3	4-Methyl-dodecan-1-ol	ug/kg				9.9 JN
17615-91-7	5,6-Dimethyl Undecane	ug/kg				
13151-35-4	5-Methyldecane	ug/kg				
1680-51-9	6-Methyltetralin	ug/kg				
107-13-1	ACRYLONITRILE	ug/kg				10.8 JN
628-63-7	Amyl Acetate (Mixed Isomers)	ug/kg				2.4 JN
4706-90-5	Benzene, 1,3-dimethyl-5-(1-methyle	ug/kg		17.8 JN		
1560-06-1	Benzene, 2-Butenyl	ug/kg				
16587-48-7	Benzo[b]thiophene, 2,5-dimethyl-	ug/kg		15 JN		
14315-14-1	Benzo[b]thiophene, 5-methyl-	ug/kg		17.1 JN		
108-86-1	BROMOBENZENE	ug/kg				3.1 JN
638-04-0	cis-1,3-Dimethylcyclohexane	ug/kg				
61142-20-9	Cyclohexane, (4-Methylpentyl)-	ug/kg				
6783-92-2	Cyclohexane, 1,1,2,3-Tetramethyl-	ug/kg				
54411-01-7	Cyclohexane, 1-methyl-2-pent	ug/kg				
99-87-6	CYMENE	ug/kg				4 JN
5359-04-6	Ethanone, 1-[4-(1-methylethenyl)phenyl]-	ug/kg				
141-78-6	ETHYL ACETATE	ug/kg				2.1 JN
67-72-1	HEXACHLOROETHANE	ug/kg				R
108-21-4	Isopropyl Acetate	ug/kg				1.7 JN
108-20-3	Isopropyl Ether	ug/kg				1.9 JN
80-62-6	METHYL METHACRYLATE	ug/kg				2.2 JN
126-98-7	METHYLACRYLONITRILE	ug/kg				2 JN

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES TICs					
104-51-8	N-BUTYLBENZENE	ug/kg				
112-40-3	N-Dodecane	ug/kg				
103-65-1	N-PROPYLBENZENE	ug/kg				7.7 JN
91-20-3	NAPHTHALENE	ug/kg				R
527-84-4	O-Cymene (O-Isopropyltoluene)	ug/kg				
135-98-8	SEC-BUTYLBENZENE	ug/kg				2.5 JN
98-06-6	T-BUTYLBENZENE	ug/kg				3.4 JN
75-65-0	TERT-BUTYL ALCOHOL	ug/kg				26.6 JN
119-64-2	Tetralin	ug/kg				
110-01-0	Thiophene, tetrahydro-	ug/kg				
110-57-6	TRANS-1,4-DICHLORO-2-BUTENE	ug/kg				2.1 JN
493-02-7	Trans-Decahydro-Naphthalene	ug/kg				
UNKNOWN-0	unknown-01	ug/kg				
UNKNOWN12	unknown12.78	ug/kg				12.5 J
UNKNOWN13	unknown13.80	ug/kg				
UNKNOWN15	unknown15.34	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
301-02-0	(Z)-9-Octadecanimide	ug/kg	150 JN			
13065-07-1	1,2,3,4-Tetrahydro-2,7-Dimethyl Naphthalene	ug/kg				
526-73-8	1,2,3-Trimethyl Benzene	ug/kg				
95-93-2	1,2,4,5-Tetramethylbenzene	ug/kg				
141-93-5	1,3-Diethyl Benzene	ug/kg				
2131-42-2	1,4,6-Trimethylnaphthalene	ug/kg		270 JN		
571-61-9	1,5-Dimethyl Naphthalene	ug/kg		460 JN		
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg		310 JN		
575-43-9	1,6-Dimethylnaphthalene	ug/kg				
1599-67-3	1-Docosene	ug/kg				
1127-76-0	1-Ethyl Naphthalene	ug/kg		210 JN		
77899-03-7	1-Heneicosyl formate	ug/kg				480 JN
629-73-2	1-Hexadecene	ug/kg				
2051-33-4	1-Hexanol, 5-methyl-2-(1-methylethyl)	ug/kg				
203-80-5	1H-Phenylene	ug/kg		210 JN		
1730-37-6	1-Methylfluorene	ug/kg		320 JN		
18435-45-5	1-Nonadecene	ug/kg				
629-76-5	1-Pentadecanol	ug/kg				
1000292-44-2	2- Bromopropionic Acid, Pentadecyl Ester	ug/kg				
829-26-5	2,3,6-Trimethylnaphthalene	ug/kg		290 JN		
6117-98-2	2,3-Dimethyldodecane	ug/kg	94.6 JN			
62108-23-0	2,5,6-Trimethyldodecane	ug/kg				
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg				
638-36-8	2,6,10,14-Tetramethylhexadecane	ug/kg				
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg				
31295-56-4	2,6,11-Trimethyldodecane	ug/kg				
2051-30-1	2,6-Dimethyl Octane	ug/kg				
4057-42-5	2,6-Dimethyl-2-Octene	ug/kg				
17301-23-4	2,6-Dimethylundecane	ug/kg				
55045-07-3	2-Methyl-8-Propyl-Dodecane	ug/kg				
3221-61-2	2-Methyloctane	ug/kg				
2531-84-2	2-Methylphenanthrene	ug/kg		170 JN		
2136-70-1	2-Tetradecoxyethanol	ug/kg				
17312-55-9	3,8-Dimethyldodecane	ug/kg				
832-71-3	3-Methyl Phenanthrene	ug/kg		180 JN		
5911-04-6	3-Methylnonane	ug/kg				
96168-15-9	4,8,12,16-Tetramethylheptadecan-4-	ug/kg				
2216-32-2	4-Ethyl-Heptane	ug/kg				
203-64-5	4H-Cyclopenta[Def]Phenanthrene	ug/kg		280 JN		
644-08-6	4-Methyl-Biphenyl	ug/kg		340 JN		
7320-53-8	4-Methyldibenzofuran	ug/kg		220 JN		
17301-94-9	4-Methyl-Nonane	ug/kg				
17312-63-9	5-Butylnonane	ug/kg				
74685-30-6	5-Eicosene (E)-	ug/kg				
1430-97-3	9H-Fluorene, 2-Methyl-	ug/kg		160 JN		
16587-40-9	Benzo[b]thiophene, 2,7-dimethyl-	ug/kg		170 JN		
264-09-5	Benzocycloheptatrieneáá	ug/kg				
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg				
61142-20-9	Cyclohexane, (4-Methylpentyl)-	ug/kg				
6783-92-2	Cyclohexane, 1,1,2,3-Tetramethyl-	ug/kg				
295-17-0	Cyclotetradecane	ug/kg				140 JN
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg				
334-48-5	Decanoic Acid	ug/kg			85.9 JN	
123-42-2	Diacetone Alcohol	ug/kg	R	R	R	R
132-65-0	Dibenzothiophene (Synfuel)	ug/kg		390 JN		
12-95-8	Eicosane	ug/kg				
54833-23-7	EICOSANE, 10-METHYL-	ug/kg				
629-94-7	Heneicosane	ug/kg				
629-78-7	Heptadecane	ug/kg	190 JN			
13287-23-5	Heptadecane, 8-Methyl-á	ug/kg	120 JN			
1000282-97-3	Heptafluorobutanoic Acid, Heptadecyl	ug/kg	250 JN			
57-10-3	HEXADECANOIC ACID	ug/kg	120 JN			
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg			200 JN	270 JN
36653-82-4	Hexadecanol	ug/kg				210 JN

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-10 SB-10(18-20)-20151030 G4241-14 18 - 20 ft CTECH G4241 SO 10/30/2015 9:55 2/23/2016	SB-11 SB-11(4-6)-20151030 G4241-17 4 - 6 ft CTECH G4241 SO 10/30/2015 11:15 2/23/2016	SB-11 SB-11(18-20)-20151030 G4241-18 18 - 20 ft CTECH G4241 SO 10/30/2015 11:20 2/23/2016	SB-12 SB-12(2-4)-20151030 G4241-11 2 - 4 ft CTECH G4241 SO 10/30/2015 9:10 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
629-97-0	N-Docosane	ug/kg				180 JN
112-95-8	N-Eicosane	ug/kg				
544-76-3	N-Hexadecane	ug/kg				
110-54-3	N-HEXANE	ug/kg				
593-45-3	N-Octadecane	ug/kg				
1120-07-6	Nonanamide	ug/kg			110 JN	
1921-70-6	Norphytane	ug/kg				
646-31-1	N-Tetracosane	ug/kg			110 JN	
629-59-4	N-Tetradecane	ug/kg				160 JN
629-50-5	N-Tridecane	ug/kg				
1120-21-4	N-Undecane	ug/kg				
57-11-4	Octadecanoic Acid	ug/kg				
1795-15-9	Octyl Cyclohexane	ug/kg				
527-84-4	O-Cymene (O-Isopropyltoluene)	ug/kg				
629-62-9	Pentadecane	ug/kg				
1002-84-2	Pentadecanoic Acid	ug/kg				
4292-92-6	Pentyl-cyclohexane	ug/kg				
88104-31-8	Propanoic Acid, 2-Chloro-, Octadecyl Ester	ug/kg				
7683-64-9	Squalene	ug/kg				
544-63-8	Tetradecanoic Acid	ug/kg				
493-02-7	Trans-Decahydro-Naphthalene	ug/kg				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg				
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg			250 JN	
UNKNOWN2	unknown2.20	ug/kg				
UNKNOWN6	unknown6.12	ug/kg				
UNKNOWN6	unknown6.14	ug/kg				
UNKNOWN6	unknown6.33	ug/kg				
UNKNOWN6	unknown6.62	ug/kg				
UNKNOWN6	unknown6.64	ug/kg	R	R	R	
UNKNOWN6	unknown6.65	ug/kg				4800 J
UNKNOWN6	unknown6.66	ug/kg				
UNKNOWN7	unknown7.21	ug/kg				
UNKNOWN7	unknown7.54	ug/kg				
UNKNOWN9	unknown9.38	ug/kg				
UNKNOWN10	unknown10.32	ug/kg				
UNKNOWN10	unknown10.34	ug/kg				97.6 J
UNKNOWN12	unknown12.05	ug/kg				
UNKNOWN12	unknown12.44	ug/kg				
UNKNOWN12	unknown12.74	ug/kg				100 J
UNKNOWN13	unknown13.54	ug/kg				160 J

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6 U	6 U	6.1 UJ	6.2 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6 U	6 U	6.1 U	6.2 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	6 U	6 U	6.1 UJ	6.2 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6 U	6 U	6.1 UJ	6.2 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6 U	6 U	6.1 UJ	6.2 U
106-93-4	1,2-DIBROMOETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6 U	6 U	6.1 UJ	6.2 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6 U	6 U	6.1 U	6.2 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6 U	6 U	6.1 UJ	6.2 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6 U	6 U	6.1 UJ	6.2 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	120 U	120 U	120 U	120 U
591-78-6	2-HEXANONE	ug/kg	30 U	29.9 U	30.6 U	31.2 U
67-64-1	ACETONE	ug/kg	18.6 J	23.3 J	37.9	140
71-43-2	BENZENE	ug/kg	6 U	6 U	6.1 U	6.2 U
74-97-5	BROMOCHLOROMETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
75-25-2	BROMOFORM	ug/kg	6 U	6 U	6.1 U	6.2 U
74-83-9	BROMOMETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
75-15-0	CARBON DISULFIDE	ug/kg	1.4 J	6 U	6.1 U	6.2 U
56-23-5	CARBON TETRACHLORIDE	ug/kg	6 U	6 U	6.1 U	6.2 U
108-90-7	CHLOROBENZENE	ug/kg	6 U	6 U	6.1 U	6.2 U
75-00-3	CHLOROETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
67-66-3	CHLOROFORM	ug/kg	6 U	6 U	6.1 U	6.2 U
74-87-3	CHLOROMETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6 U	6 U	6.1 U	6.2 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6 U	6 U	6.1 U	6.2 U
110-82-7	CYCLOHEXANE	ug/kg	6 U	6 U	6.1 U	18.1
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
100-41-4	ETHYLBENZENE	ug/kg	6 U	6 U	6.1 U	6.2 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6 U	6 U	6.1 UJ	51.9
179601-23-1	M,P-XYLENES	ug/kg	12 U	12 U	12.3 U	12.2 J
79-20-9	METHYL ACETATE	ug/kg	6 U	6 U	6.1 U	6.2 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	30 U	29.9 U	30.6 U	31.2 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	30 U	29.9 U	30.6 U	31.2 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	6 U	6 U	6.1 U	100 J
75-09-2	METHYLENE CHLORIDE	ug/kg	6 U	6 U	6.1 U	6.2 U
95-47-6	O-XYLENE	ug/kg	6 U	6 U	6.1 U	1.8 J
100-42-5	STYRENE	ug/kg	6 U	6 U	6.1 U	6.2 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6 U	6 U	6.1 U	6.2 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	6 U	6 U	6.1 U	6.2 U
108-88-3	TOLUENE	ug/kg	6 U	6 U	6.1 U	1.7 J
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6 U	6 U	6.1 U	6.2 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6 U	6 U	6.1 U	6.2 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6 U	6 U	6.1 U	6.2 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6 U	6 U	6.1 U	6.2 U
75-01-4	VINYL CHLORIDE	ug/kg	6 U	6 U	6.1 U	6.2 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	400 U	390 U	400 U	410 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	400 U	390 U	400 U	410 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	400 U	390 U	400 U	410 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	400 U	390 U	400 U	410 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	400 U	390 U	400 U	410 U
51-28-5	2,4-DINITROPHENOL	ug/kg	400 U	390 U	400 U	410 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	400 U	390 U	400 U	410 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	400 U	390 U	400 U	410 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	400 U	390 U	400 U	410 U
95-57-8	2-CHLOROPHENOL	ug/kg	400 U	390 U	400 U	410 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	400 U	390 U	400 U	710
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	400 U	390 U	400 U	410 U
88-74-4	2-NITROANILINE	ug/kg	400 U	390 U	400 U	410 U
88-75-5	2-NITROPHENOL	ug/kg	400 U	390 U	400 U	410 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	400 U	390 U	400 U	410 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	400 U	390 U	400 U	410 U
99-09-2	3-NITROANILINE	ug/kg	400 U	390 U	400 U	410 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	400 U	390 U	400 U	410 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	400 U	390 U	400 U	410 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	400 U	390 U	400 U	410 U
106-47-8	4-CHLOROANILINE	ug/kg	400 U	390 U	400 U	410 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	400 U	390 U	400 U	410 U
100-01-6	4-NITROANILINE	ug/kg	400 U	390 U	400 U	410 U
100-02-7	4-NITROPHENOL	ug/kg	400 U	390 U	400 U	410 U
83-32-9	ACENAPHTHENE	ug/kg	400 U	390 U	400 U	410 U
208-96-8	ACENAPHTHYLENE	ug/kg	400 U	390 U	400 U	410 U
98-86-2	ACETOPHENONE	ug/kg	400 U	390 U	400 U	410 U
120-12-7	ANTHRACENE	ug/kg	400 U	390 U	400 U	410 U
1912-24-9	ATRAZINE	ug/kg	400 U	390 U	400 U	410 U
100-52-7	BENZALDEHYDE	ug/kg	400 U	390 U	400 U	410 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	400 U	390 U	400 U	410 U
50-32-8	BENZO(A)PYRENE	ug/kg	400 U	390 U	400 U	410 U
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	400 U	390 U	400 U	410 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	400 U	390 U	400 U	410 U
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	400 U	390 U	400 U	410 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	400 U	390 U	400 U	410 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	400 U	390 U	400 U	410 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	400 U	390 U	400 U	410 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	400 U	390 U	400 U	410 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	400 U	390 U	400 U	410 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	400 U	390 U	400 U	410 U
105-60-2	CAPROLACTAM	ug/kg	400 U	390 U	400 U	410 U
86-74-8	CARBAZOLE	ug/kg	400 U	390 U	400 U	410 U
218-01-9	CHRYSENE	ug/kg	400 U	390 U	400 U	410 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	400 U	390 U	400 U	410 U
132-64-9	DIBENZOFURAN	ug/kg	400 U	390 U	400 U	410 U
84-66-2	DIETHYL PHTHALATE	ug/kg	400 U	390 U	400 U	410 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	620	650	610	770
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	400 U	390 U	400 U	410 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	400 U	390 U	400 U	410 U
206-44-0	FLUORANTHENE	ug/kg	400 U	390 U	400 U	410 U
86-73-7	FLUORENE	ug/kg	400 U	390 U	400 U	410 U
118-74-1	HEXACHLOROBENZENE	ug/kg	400 U	390 U	400 U	410 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	400 U	390 U	400 U	410 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	400 U	390 U	400 U	410 U
67-72-1	HEXACHLOROETHANE	ug/kg	400 U	390 U	400 U	410 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	400 UJ	390 UJ	400 UJ	410 UJ
78-59-1	ISOPHORONE	ug/kg	400 U	390 U	400 U	410 U
91-20-3	NAPHTHALENE	ug/kg	400 U	390 U	400 U	410 U
98-95-3	NITROBENZENE	ug/kg	400 U	390 U	400 U	410 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	400 U	390 U	400 U	410 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	400 U	390 U	400 U	410 U
87-86-5	PENTACHLOROPHENOL	ug/kg	400 U	390 U	400 U	410 U
85-01-8	PHENANTHRENE	ug/kg	400 U	390 U	400 U	410 U
108-95-2	PHENOL	ug/kg	400 U	390 U	400 U	410 U
129-00-0	PYRENE	ug/kg	400 U	390 U	400 U	410 U
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	400 U	390 U	400 U	410 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/kg				2.1 U
319-84-6	ALPHA BHC	ug/kg				2.1 U
959-98-8	ALPHA ENDOSULFAN	ug/kg				2.1 U
5103-71-9	ALPHA-CHLORDANE	ug/kg				2.1 U
319-85-7	BETA BHC	ug/kg				2.1 U
33213-65-9	BETA ENDOSULFAN	ug/kg				2.1 U
5103-74-2	BETA-CHLORDANE	ug/kg				2.1 U
319-86-8	DELTA BHC	ug/kg				2.1 U
60-57-1	DIELDRIN	ug/kg				2.1 U
1031-07-8	ENDOSULFAN SULFATE	ug/kg				2.1 U
72-20-8	ENDRIN	ug/kg				2.1 U
7421-93-4	ENDRIN ALDEHYDE	ug/kg				2.1 U
53494-70-5	ENDRIN KETONE	ug/kg				2.1 U
58-89-9	GAMMA BHC (LINDANE)	ug/kg				2.1 U
76-44-8	HEPTACHLOR	ug/kg				2.1 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg				2.1 U
72-43-5	METHOXYCHLOR	ug/kg				2.1 U
72-54-8	P,P'-DDD	ug/kg				2.1 U
72-55-9	P,P'-DDE	ug/kg				2.1 U
50-29-3	P,P'-DDT	ug/kg				2.1 U
8001-35-2	TOXAPHENE	ug/kg				21.3 U
	PCBs					
12674-11-2	PCB-1016 (AROCOR 1016)	ug/kg				21.3 U
11104-28-2	PCB-1221 (AROCOR 1221)	ug/kg				21.3 U
11141-16-5	PCB-1232 (AROCOR 1232)	ug/kg				21.3 U
53469-21-9	PCB-1242 (AROCOR 1242)	ug/kg				21.3 U
12672-29-6	PCB-1248 (AROCOR 1248)	ug/kg				21.3 U
11097-69-1	PCB-1254 (AROCOR 1254)	ug/kg				21.3 U
11096-82-5	PCB-1260 (AROCOR 1260)	ug/kg				21.3 U
37324-23-5	PCB-1262 (AROCOR 1262)	ug/kg				21.3 U
11100-14-4	PCB-1268 (AROCOR 1268)	ug/kg				21.3 U
	HERBICIDES					
94-75-7	2,4-D	ug/kg				83.7 U
93-72-1	SILVEX (2,4,5-TP)	ug/kg				83.7 U
1918-00-9	DICAMBA	ug/kg				83.7 U
120-36-5	DICHLOROPROP	ug/kg				83.7 U
88-85-7	DINOSIB	ug/kg				83.7 U
93-76-5	2,4,5-T	ug/kg				83.7 U
94-82-6	2,4 DB	ug/kg				83.7 U
	INORGANICS					
7429-90-5	ALUMINUM	mg/kg	2540	2130	1930	10000 J
7440-36-0	ANTIMONY	mg/kg	2.55 U	2.49 U	2.55 U	2.63 U
7440-38-2	ARSENIC	mg/kg	2.48	2.94	2.36	4.91
7440-39-3	BARIUM	mg/kg	19	12.6	14.5	119 J
7440-41-7	BERYLLIUM	mg/kg	0.175 J	0.159 J	0.167 J	0.6
7440-43-9	CADMIUM	mg/kg	0.11 J	0.125 J	0.134 J	0.313 J
7440-70-2	CALCIUM	mg/kg	42000	42700	37500	2980 J
7440-47-3	CHROMIUM, TOTAL	mg/kg	4.53	3.69	3.77	13.2 J
7440-48-4	COBALT	mg/kg	2.93	2.59	2.24	8.77 J
7440-50-8	COPPER	mg/kg	6.54	6.81	6.45	11.3 J
7439-89-6	IRON	mg/kg	7820	7150	6190	26800
7439-92-1	LEAD	mg/kg	3.58	3.47	3.37	18.4
7439-95-4	MAGNESIUM	mg/kg	14500	15200	12800	2850 J
7439-96-5	MANGANESE	mg/kg	219	214	190	878 J
7439-97-6	MERCURY	mg/kg	0.016 U	0.016 U	0.014 U	0.072
7440-02-0	NICKEL	mg/kg	7.46	6.41	5.86	23 J
7440-09-7	POTASSIUM	mg/kg	595	502	467	798 J
7782-49-2	SELENIUM	mg/kg	1.02 U	0.997 U	1.02 U	1.05 U
7440-22-4	SILVER	mg/kg	0.463 J	0.409 J	0.34 J	1.94 J
7440-23-5	SODIUM	mg/kg	137	207	181	91 J
7440-28-0	THALLIUM	mg/kg	2.04 U	1.99 U	2.04 U	2.11 U
7440-62-2	VANADIUM	mg/kg	7.73	7.39	6.5	19.2 J
7440-66-6	ZINC	mg/kg	40.8	38	37.7	153
57-12-5	CYANIDE	mg/kg	0.292 U	0.277 U	0.301 U	0.293 U

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES TICs					
54758-36-0	(1-Methylbuta-1,3-dienyl)benzene	ug/kg				
70588-46-4	(1-Methylenebut-2-enyl)benzene	ug/kg				
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/kg				
563-58-6	1,1-DICHLOROPROPENE	ug/kg				
590-66-9	1,1-Dimethylcyclohexane	ug/kg				110 JN
4175-54-6	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	ug/kg				
96-18-4	1,2,3-TRICHLOROPROPANE	ug/kg				
526-73-8	1,2,3-Trimethyl Benzene	ug/kg				
95-93-2	1,2,4,5-Tetramethylbenzene	ug/kg				100 JN
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg				350 JN
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg				
21195-59-5	1,3,8-P-Menthatriene	ug/kg				
142-28-9	1,3-DICHLOROPROPANE	ug/kg				
2050-24-0	1,3-Diethyl-5-Methylbenzene	ug/kg				
2177-48-2	1,3-Dimethyl-1H-Indene	ug/kg				
50704-01-3	1,3-Dimethyl-2-Butenyl-Benzene	ug/kg				
2131-41-1	1,4,5-Trimethylnaphthalene	ug/kg				
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg				
575-37-1	1,7-Dimethyl Naphthalene	ug/kg				
51783-46-1	1-Ethenyl-2,3-Dihydro-1H-Indene	ug/kg				
874-35-1	1H-Indene 2,3-Dihydro-5-Methyl-	ug/kg				
6682-71-9	1H-Indene, 2,3-Dihydro-4,7-Dimethyl-	ug/kg				
1587-04-8	1-Methyl-2(2-Propenyl)-Benzene	ug/kg				
1074-17-5	1-Methyl-2-Propylbenzene	ug/kg				
90-12-0	1-Methylnaphthalene	ug/kg				
829-26-5	2,3,6-Trimethylnaphthalene	ug/kg				
1685-82-1	2,3-Dihydro-4,6-Dimethyl-1H-Indene	ug/kg				
581-40-8	2,3-Dimethyl Naphthalene	ug/kg				
4773-82-4	2,3-Dimethyl-1H-Indene	ug/kg				
638-36-8	2,6,10,14-Tetramethylhexadecane	ug/kg				
31295-56-4	2,6,11-Trimethyldodecane	ug/kg				
581-42-0	2,6-Dimethyl-Napthalene	ug/kg				
17301-23-4	2,6-Dimethylundecane	ug/kg				290 JN
582-16-1	2,7-Dimethyl Naphthalene	ug/kg				
95-49-8	2-CHLOROTOLUENE	ug/kg				
769-25-5	2-Ethenyl-1,3,5-Trimethylbenzene	ug/kg				
939-27-5	2-Ethyl naphthalene	ug/kg				
4110-44-5	3,3-Dimethyloctane	ug/kg				190 JN
934-74-7	3,5-Dimethyl-1-Ethylbenzene	ug/kg				
767-60-2	3-Methyl-1H-Indene	ug/kg				
941-81-1	4,6,8-Trimethylazulene	ug/kg				
106-43-4	4-CHLOROTOLUENE	ug/kg				
622-96-8	4-ETHYLTOLUENE	ug/kg				
2847-72-5	4-Methyl Decane	ug/kg				
1000192-41-3	4-Methyl-dodecan-1-ol	ug/kg				
17615-91-7	5,6-Dimethyl Undecane	ug/kg				96.5 JN
13151-35-4	5-Methyldecane	ug/kg				91.5 JN
1680-51-9	6-Methyltetralin	ug/kg				
107-13-1	ACRYLONITRILE	ug/kg				
628-63-7	Amyl Acetate (Mixed Isomers)	ug/kg				
4706-90-5	Benzene, 1,3-dimethyl-5-(1-methyle	ug/kg				
1560-06-1	Benzene, 2-Butenyl	ug/kg				
16587-48-7	Benzo[b]thiophene, 2,5-dimethyl-	ug/kg				
14315-14-1	Benzo[b]thiophene, 5-methyl-	ug/kg				
108-86-1	BROMOBENZENE	ug/kg				
638-04-0	cis-1,3-Dimethylcyclohexane	ug/kg				280 JN
61142-20-9	Cyclohexane, (4-Methylpentyl)-	ug/kg				240 JN
6783-92-2	Cyclohexane, 1,1,2,3-Tetramethyl-	ug/kg				
54411-01-7	Cyclohexane, 1-methyl-2-pent	ug/kg				190 JN
99-87-6	CYMENE	ug/kg	1.4 JN			19.7 JN
5359-04-6	Ethanone, 1-[4-(1-methylethenyl)phenyl]-	ug/kg				
141-78-6	ETHYL ACETATE	ug/kg				
67-72-1	HEXACHLOROETHANE	ug/kg				
108-21-4	Isopropyl Acetate	ug/kg				
108-20-3	Isopropyl Ether	ug/kg				
80-62-6	METHYL METHACRYLATE	ug/kg				
126-98-7	METHYLACRYLONITRILE	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES TICs					
104-51-8	N-BUTYLBENZENE	ug/kg				69.9 JN
112-40-3	N-Dodecane	ug/kg				
103-65-1	N-PROPYLBENZENE	ug/kg				97.1 JN
91-20-3	NAPHTHALENE	ug/kg				
527-84-4	O-Cymene (O-Isopropyltoluene)	ug/kg				
135-98-8	SEC-BUTYLBENZENE	ug/kg				62.7 JN
98-06-6	T-BUTYLBENZENE	ug/kg				
75-65-0	TERT-BUTYL ALCOHOL	ug/kg				23.8 JN
119-64-2	Tetralin	ug/kg				
110-01-0	Thiophene, tetrahydro-	ug/kg				
110-57-6	TRANS-1,4-DICHLORO-2-BUTENE	ug/kg				
493-02-7	Trans-Decahydro-Naphthalene	ug/kg				110 JN
UNKNOWN-0	unknown-01	ug/kg				
UNKNOWN12	unknown12.78	ug/kg				
UNKNOWN13	unknown13.80	ug/kg				
UNKNOWN15	unknown15.34	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
301-02-0	(Z)-9-Octadecanimide	ug/kg		100 JN	240 JN	
13065-07-1	1,2,3,4-Tetrahydro-2,7-Dimethyl Naphthalene	ug/kg				1300 JN
526-73-8	1,2,3-Trimethyl Benzene	ug/kg				880 JN
95-93-2	1,2,4,5-Tetramethylbenzene	ug/kg				1600 JN
141-93-5	1,3-Diethyl Benzene	ug/kg				
2131-42-2	1,4,6-Trimethylnaphthalene	ug/kg				
571-61-9	1,5-Dimethyl Naphthalene	ug/kg				
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg				
575-43-9	1,6-Dimethylnaphthalene	ug/kg				
1599-67-3	1-Docosene	ug/kg				1100 JN
1127-76-0	1-Ethyl Naphthalene	ug/kg				
77899-03-7	1-Heneicosyl formate	ug/kg				
629-73-2	1-Hexadecene	ug/kg				
2051-33-4	1-Hexanol, 5-methyl-2-(1-methyleth	ug/kg				
203-80-5	1H-Phenylene	ug/kg				
1730-37-6	1-Methylfluorene	ug/kg				
18435-45-5	1-Nonadecene	ug/kg	220 JN			
629-76-5	1-Pentadecanol	ug/kg				
1000292-44-2	2- Bromopropionic Acid, Pentadecyl Ester	ug/kg				
829-26-5	2,3,6-Trimethylnaphthalene	ug/kg				
6117-98-2	2,3-Dimethyldodecane	ug/kg				
62108-23-0	2,5,6-Trimethyldecane	ug/kg				1000 JN
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg	86.1 JN			
638-36-8	2,6,10,14-Tetramethylhexadecane	ug/kg				
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg				1400 JN
31295-56-4	2,6,11-Trimethyldodecane	ug/kg				
2051-30-1	2,6-Dimethyl Octane	ug/kg				
4057-42-5	2,6-Dimethyl-2-Octene	ug/kg				
17301-23-4	2,6-Dimethylundecane	ug/kg				2600 JN
55045-07-3	2-Methyl-8-Propyl-Dodecane	ug/kg				
3221-61-2	2-Methyloctane	ug/kg				930 JN
2531-84-2	2-Methylphenanthrene	ug/kg				
2136-70-1	2-Tetradecoxyethanol	ug/kg				
17312-55-9	3,8-Dimethyldecane	ug/kg		100 JN		
832-71-3	3-Methyl Phenanthrene	ug/kg				
5911-04-6	3-Methylnonane	ug/kg				2900 JN
96168-15-9	4,8,12,16-Tetramethylheptadecan-4-	ug/kg				
2216-32-2	4-Ethyl-Heptane	ug/kg				810 JN
203-64-5	4H-Cyclopenta[Def]Phenanthrene	ug/kg				
644-08-6	4-Methyl-Biphenyl	ug/kg				
7320-53-8	4-Methyldibenzofuran	ug/kg				
17301-94-9	4-Methyl-Nonane	ug/kg				
17312-63-9	5-Butylnonane	ug/kg		170 JN		
74685-30-6	5-Eicosene (E)-	ug/kg				
1430-97-3	9H-Fluorene, 2-Methyl-	ug/kg				
16587-40-9	Benzo[b]thiophene, 2,7-dimethyl-	ug/kg				
264-09-5	Benzocycloheptatrieneáá	ug/kg				
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg		250 JN	280 JN	
61142-20-9	Cyclohexane, (4-Methylpentyl)-	ug/kg				
6783-92-2	Cyclohexane, 1,1,2,3-Tetramethyl-	ug/kg				
295-17-0	Cyclotetradecane	ug/kg				
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg				
334-48-5	Decanoic Acid	ug/kg				
123-42-2	Diacetone Alcohol	ug/kg	R	R	R	R
132-65-0	Dibenzothiophene (Synfuel)	ug/kg				
12-95-8	Eicosane	ug/kg				
54833-23-7	EICOSANE, 10-METHYL-	ug/kg			110 JN	
629-94-7	Heneicosane	ug/kg	110 JN			
629-78-7	Heptadecane	ug/kg				
13287-23-5	Heptadecane, 8-Methyl-á	ug/kg				
1000282-97-3	Heptafluorobutanoic Acid, Heptadecy	ug/kg				
57-10-3	HEXADECANOIC ACID	ug/kg	190 JN	200 JN	280 JN	
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg				
36653-82-4	Hexadecanol	ug/kg				

Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-12 SB-12(18-20)-20151030 G4241-12 18 - 20 ft CTECH G4241 SO 10/30/2015 9:15 2/23/2016	SB-13 SB-13(10-12)-20151030 G4241-09 10 - 12 ft CTECH G4241 SO 10/30/2015 8:20 2/23/2016	SB-13 SB-13(18-20)-20151030 G4241-10 18 - 20 ft CTECH G4241 SO 10/30/2015 8:25 2/23/2016	TP-15 TP-15(3)-20151029 G4241-05 3 - 3 ft CTECH G4241 SO 10/29/2015 17:50 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
629-97-0	N-Docosane	ug/kg				
112-95-8	N-Eicosane	ug/kg			86.8 JN	
544-76-3	N-Hexadecane	ug/kg			170 JN	830 JN
110-54-3	N-HEXANE	ug/kg				
593-45-3	N-Octadecane	ug/kg				
1120-07-6	Nonanamide	ug/kg				
1921-70-6	Norphytane	ug/kg				2300 JN
646-31-1	N-Tetracosane	ug/kg				
629-59-4	N-Tetradecane	ug/kg				
629-50-5	N-Tridecane	ug/kg				
1120-21-4	N-Undecane	ug/kg				860 JN
57-11-4	Octadecanoic Acid	ug/kg				
1795-15-9	Octyl Cyclohexane	ug/kg				4100 JN
527-84-4	O-Cymene (O-Isopropyltoluene)	ug/kg				
629-62-9	Pentadecane	ug/kg				
1002-84-2	Pentadecanoic Acid	ug/kg				
4292-92-6	Pentyl-cyclohexane	ug/kg				1800 JN
88104-31-8	Propanoic Acid, 2-Chloro-, Octadecyl Ester	ug/kg				
7683-64-9	Squalene	ug/kg		130 JN		
544-63-8	Tetradecanoic Acid	ug/kg			91.3 JN	
493-02-7	Trans-Decahydro-Naphthalene	ug/kg				
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg				
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg				
UNKNOWN2	unknown2.20	ug/kg				
UNKNOWN6	unknown6.12	ug/kg				1200 J
UNKNOWN6	unknown6.14	ug/kg				
UNKNOWN6	unknown6.33	ug/kg				
UNKNOWN6	unknown6.62	ug/kg				
UNKNOWN6	unknown6.64	ug/kg	R	R	R	R
UNKNOWN6	unknown6.65	ug/kg				
UNKNOWN6	unknown6.66	ug/kg				
UNKNOWN7	unknown7.21	ug/kg				
UNKNOWN7	unknown7.54	ug/kg				
UNKNOWN9	unknown9.38	ug/kg				810 J
UNKNOWN10	unknown10.32	ug/kg				
UNKNOWN10	unknown10.34	ug/kg				
UNKNOWN12	unknown12.05	ug/kg				
UNKNOWN12	unknown12.44	ug/kg				
UNKNOWN12	unknown12.74	ug/kg				
UNKNOWN13	unknown13.54	ug/kg				

				Dup of TP-17(3)-20151029	
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	TP-16 TP-16(4)-20151029 G4241-04 4 - 4 ft CTECH G4241 SO 10/29/2015 17:45 2/23/2016	TP-17 TP-17(3)-20151029 G4241-01 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-117(3)-20151029 G4241-02 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	6.6 U	6 U	6.5 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	6.6 U	6 U	6.5 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	6.6 U	6 U	6.5 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	6.6 U	6 U	6.5 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	6.6 U	6 U	6.5 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	6.6 U	6 U	6.5 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/kg	6.6 U	6 U	6.5 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	6.6 U	6 U	6.5 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	6.6 U	6 U	6.5 U
106-93-4	1,2-DIBROMOETHANE	ug/kg	6.6 U	6 U	6.5 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	6.6 U	6 U	6.5 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	6.6 U	6 U	6.5 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	6.6 U	6 U	6.5 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	6.6 U	6 U	6.5 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	6.6 U	6 U	6.5 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/kg	130 U	120 U	130 U
591-78-6	2-HEXANONE	ug/kg	32.8 U	30.2 U	32.4 U
67-64-1	ACETONE	ug/kg	220	420	350
71-43-2	BENZENE	ug/kg	6.6 U	6 U	6.5 U
74-97-5	BROMOCHLOROMETHANE	ug/kg	6.6 U	6 U	6.5 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	6.6 U	6 U	6.5 U
75-25-2	BROMOFORM	ug/kg	6.6 U	6 U	6.5 U
74-83-9	BROMOMETHANE	ug/kg	6.6 U	6 U	6.5 U
75-15-0	CARBON DISULFIDE	ug/kg	9.1	5.3 J	9.8
56-23-5	CARBON TETRACHLORIDE	ug/kg	6.6 U	6 U	6.5 U
108-90-7	CHLOROBENZENE	ug/kg	6.6 U	6 U	6.5 U
75-00-3	CHLOROETHANE	ug/kg	6.6 U	6 U	6.5 U
67-66-3	CHLOROFORM	ug/kg	6.6 U	6 U	6.5 U
74-87-3	CHLOROMETHANE	ug/kg	6.6 U	6 U	6.5 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	6.6 U	6 U	6.5 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	6.6 U	6 U	6.5 U
110-82-7	CYCLOHEXANE	ug/kg	6.6 U	4.6 J	13.1 J
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	6.6 U	6 U	6.5 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	6.6 U	6 U	6.5 U
100-41-4	ETHYLBENZENE	ug/kg	6.6 U	6 U	2 J
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	6.6 U	11.9 J	23.3 J
179601-23-1	M,P-XYLENES	ug/kg	13.1 U	19.4 J	40.8 J
79-20-9	METHYL ACETATE	ug/kg	6.6 U	6 U	6.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	46.8	110	80.6
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	32.8 U	30.2 U	32.4 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	6.6 U	8.3 J	17.2 J
75-09-2	METHYLENE CHLORIDE	ug/kg	6.6 U	6 U	6.5 U
95-47-6	O-XYLENE	ug/kg	6.6 U	21.7 J	45.9 J
100-42-5	STYRENE	ug/kg	6.6 U	6 U	6.5 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	6.6 U	6 U	6.5 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	6.6 U	6 U	6.5 U
108-88-3	TOLUENE	ug/kg	6.6 U	2 J	3.8 J
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	6.6 U	6 U	6.5 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	6.6 U	6 U	6.5 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	6.6 U	6 U	6.5 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	6.6 U	6 U	6.5 U
75-01-4	VINYL CHLORIDE	ug/kg	6.6 U	6 U	6.5 U

				Dup of TP-17(3)-20151029	
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	TP-16 TP-16(4)-20151029 G4241-04 4 - 4 ft CTECH G4241 SO 10/29/2015 17:45 2/23/2016	TP-17 TP-17(3)-20151029 G4241-01 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-117(3)-20151029 G4241-02 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILES				
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/kg	430 U	400 U	430 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	430 U	400 U	430 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	430 U	400 U	430 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	430 U	400 U	430 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	430 U	400 U	430 U
51-28-5	2,4-DINITROPHENOL	ug/kg	430 U	400 U	430 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	430 U	400 U	430 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	430 U	400 U	430 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	430 U	400 U	430 U
95-57-8	2-CHLOROPHENOL	ug/kg	430 U	400 U	430 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	430 U	640	980
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	430 U	400 U	430 U
88-74-4	2-NITROANILINE	ug/kg	430 U	400 U	430 U
88-75-5	2-NITROPHENOL	ug/kg	430 U	400 U	430 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	430 U	400 U	430 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/kg	430 U	400 U	430 U
99-09-2	3-NITROANILINE	ug/kg	430 U	400 U	430 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	430 U	400 U	2100 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	430 U	400 U	2100 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	430 U	400 U	430 U
106-47-8	4-CHLOROANILINE	ug/kg	430 U	400 U	430 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	430 U	400 U	430 U
100-01-6	4-NITROANILINE	ug/kg	430 U	400 U	430 U
100-02-7	4-NITROPHENOL	ug/kg	430 U	400 U	430 U
83-32-9	ACENAPHTHENE	ug/kg	430 U	1400	1600
208-96-8	ACENAPHTHYLENE	ug/kg	430 U	570	680
98-86-2	ACETOPHENONE	ug/kg	430 U	400 U	430 U
120-12-7	ANTHRACENE	ug/kg	430 U	1300	2000 J
1912-24-9	ATRAZINE	ug/kg	430 U	400 U	2100 U
100-52-7	BENZALDEHYDE	ug/kg	430 U	400 U	430 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	430 U	1000	1100
50-32-8	BENZO(A)PYRENE	ug/kg	430 U	910	970
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	430 U	680	910
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	430 U	580	570
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	430 U	380 J	270 J
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	430 U	400 U	430 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	430 U	130 J	240 J
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	430 U	400 U	430 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/kg	430 U	400 U	430 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	430 U	400 U	430 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	430 U	400 U	430 U
105-60-2	CAPROLACTAM	ug/kg	430 U	400 U	430 U
86-74-8	CARBAZOLE	ug/kg	430 U	400 U	2100 U
218-01-9	CHRYSENE	ug/kg	430 U	810	950
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	430 U	110 J	95.9 J
132-64-9	DIBENZOFURAN	ug/kg	430 U	400 U	430 U
84-66-2	DIETHYL PHTHALATE	ug/kg	430 U	400 U	430 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	590	720	750
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	430 U	400 U	2100 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	430 U	400 U	430 U
206-44-0	FLUORANTHENE	ug/kg	430 U	1800	2100
86-73-7	FLUORENE	ug/kg	430 U	1300	1800
118-74-1	HEXACHLOROBENZENE	ug/kg	430 U	400 U	2100 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	430 U	400 U	430 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	430 U	400 U	430 U
67-72-1	HEXACHLOROETHANE	ug/kg	430 U	400 U	430 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	430 UJ	500 J	450 J
78-59-1	ISOPHORONE	ug/kg	430 U	400 U	430 U
91-20-3	NAPHTHALENE	ug/kg	430 U	1100	1200
98-95-3	NITROBENZENE	ug/kg	430 U	400 U	430 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	430 U	400 U	430 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	430 U	400 U	2100 U
87-86-5	PENTACHLOROPHENOL	ug/kg	430 U	400 U	2100 U
85-01-8	PHENANTHRENE	ug/kg	430 U	3800	5900
108-95-2	PHENOL	ug/kg	430 U	400 U	430 U
129-00-0	PYRENE	ug/kg	430 U	2400	2800
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/kg	430 U	400 U	430 U

				Dup of TP-17(3)-20151029		
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID:	TP-16	TP-17	TP-17	TP-17
		Sample ID:	TP-16(4)-20151029	TP-17(3)-20151029	TP-117(3)-20151029	TP-17(6)-20151029
		Lab Sample Id:	G4241-04	G4241-01	G4241-02	G4241-03
		Depth:	4 - 4 ft	3 - 3 ft	3 - 3 ft	6 - 6 ft
		Source:	CTECH	CTECH	CTECH	CTECH
		SDG:	G4241	G4241	G4241	G4241
		Matrix:	SO	SO	SO	SO
		Sampled:	10/29/2015 17:45	10/29/2015 17:35	10/29/2015 17:35	10/29/2015 17:40
		Validated:	2/23/2016	2/23/2016	2/23/2016	2/23/2016
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
319-84-6	ALPHA BHC	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
959-98-8	ALPHA ENDOSULFAN	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
5103-71-9	ALPHA-CHLORDANE	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
319-85-7	BETA BHC	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
33213-65-9	BETA ENDOSULFAN	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
5103-74-2	BETA-CHLORDANE	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
319-86-8	DELTA BHC	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
60-57-1	DIELDRIN	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
1031-07-8	ENDOSULFAN SULFATE	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
72-20-8	ENDRIN	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
7421-93-4	ENDRIN ALDEHYDE	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
53494-70-5	ENDRIN KETONE	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
58-89-9	GAMMA BHC (LINDANE)	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
76-44-8	HEPTACHLOR	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
72-43-5	METHOXYCHLOR	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
72-54-8	P,P'-DDD	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
72-55-9	P,P'-DDE	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
50-29-3	P,P'-DDT	ug/kg	2.2 U	2.1 U	2.2 U	2.1 U
8001-35-2	TOXAPHENE	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
	PCBs					
12674-11-2	PCB-1016 (AROCOR 1016)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
11104-28-2	PCB-1221 (AROCOR 1221)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
11141-16-5	PCB-1232 (AROCOR 1232)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
53469-21-9	PCB-1242 (AROCOR 1242)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
12672-29-6	PCB-1248 (AROCOR 1248)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
11097-69-1	PCB-1254 (AROCOR 1254)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
11096-82-5	PCB-1260 (AROCOR 1260)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
37324-23-5	PCB-1262 (AROCOR 1262)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
11100-14-4	PCB-1268 (AROCOR 1268)	ug/kg	22.2 U	20.6 U	21.9 U	21.4 U
	HERBICIDES					
94-75-7	2,4-D	ug/kg	87.5 U	81 U	86.7 U	84.2 U
93-72-1	SILVEX (2,4,5-TP)	ug/kg	87.5 U	81 U	86.7 U	84.2 U
1918-00-9	DICAMBA	ug/kg	87.5 U	81 U	86.7 U	84.2 U
120-36-5	DICHLOROPROP	ug/kg	87.5 U	81 U	86.7 U	84.2 U
88-85-7	DINOSEB	ug/kg	87.5 U	81 U	86.7 U	84.2 U
93-76-5	2,4,5-T	ug/kg	87.5 U	81 U	86.7 U	84.2 U
94-82-6	2,4 DB	ug/kg	87.5 U	81 U	86.7 U	84.2 U
	INORGANICS					
7429-90-5	ALUMINUM	mg/kg	8530	5150	5580	9690
7440-36-0	ANTIMONY	mg/kg	2.75 U	2.54 U	2.64 U	2.61 U
7440-38-2	ARSENIC	mg/kg	4.62	6.59	5.01	3.63
7440-39-3	BARIUM	mg/kg	68.8	50.5	56.3	76.3
7440-41-7	BERYLLIUM	mg/kg	0.553	0.387	0.391	0.555
7440-43-9	CADMIUM	mg/kg	0.166 J	0.268 J	0.138 J	0.392
7440-70-2	CALCIUM	mg/kg	3120	10600 J	3710 J	54300
7440-47-3	CHROMIUM, TOTAL	mg/kg	11.6	7.61	7.83	12.3
7440-48-4	COBALT	mg/kg	6.38	5.28	4.47	10.38
7440-50-8	COPPER	mg/kg	8.21	19.3	15.1	12.2
7439-89-6	IRON	mg/kg	24000	14400	15400	19400
7439-92-1	LEAD	mg/kg	15.7	19.4	13	8.74
7439-95-4	MAGNESIUM	mg/kg	2540	2610	1920	13700
7439-96-5	MANGANESE	mg/kg	311	200	130	595
7439-97-6	MERCURY	mg/kg	0.092	0.053	0.039	0.037
7440-02-0	NICKEL	mg/kg	19.5	15.8	14.2	24.3
7440-09-7	POTASSIUM	mg/kg	673	469	451	1560
7782-49-2	SELENIUM	mg/kg	1.1 U	1.02 U	1.06 U	1.04 U
7440-22-4	SILVER	mg/kg	1.66	0.929	0.995	1.26
7440-23-5	SODIUM	mg/kg	201	158	151	215
7440-28-0	THALLIUM	mg/kg	2.2 U	2.03 U	2.11 U	2.09 U
7440-62-2	VANADIUM	mg/kg	15.4	12	13.1	17
7440-66-6	ZINC	mg/kg	121	77.9	75.7	56.5
57-12-5	CYANIDE	mg/kg	0.321 U	0.286 U	0.303 U	0.291 U

				Dup of TP-17(3)-20151029	
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	TP-16 TP-16(4)-20151029 G4241-04 4 - 4 ft CTECH G4241 SO 10/29/2015 17:45 2/23/2016	TP-17 TP-17(3)-20151029 G4241-01 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-17(3)-20151029 G4241-02 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016
CAS NO.	COMPOUND	UNITS:			
	VOLATILES TICs				
54758-36-0	(1-Methylbuta-1,3-dienyl)benzene	ug/kg			
70588-46-4	(1-Methylenebut-2-enyl)benzene	ug/kg			
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/kg			
563-58-6	1,1-DICHLOROPROPENE	ug/kg			
590-66-9	1,1-Dimethylcyclohexane	ug/kg			
4175-54-6	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	ug/kg			
96-18-4	1,2,3-TRICHLOROPROPANE	ug/kg			
526-73-8	1,2,3-Trimethyl Benzene	ug/kg			350 JN
95-93-2	1,2,4,5-Tetramethylbenzene	ug/kg			
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/kg		330 JN	20.2 JN
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		130 JN	45.7 JN
21195-59-5	1,3,8-P-Menthatriene	ug/kg		170 JN	14.8 JN
142-28-9	1,3-DICHLOROPROPANE	ug/kg			
2050-24-0	1,3-Diethyl-5-Methylbenzene	ug/kg			190 JN
2177-48-2	1,3-Dimethyl-1H-Indene	ug/kg		150 JN	
50704-01-3	1,3-Dimethyl-2-Butenyl-Benzene	ug/kg			
2131-41-1	1,4,5-Trimethylnaphthalene	ug/kg	9.4 JN		
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg			
575-37-1	1,7-Dimethyl Naphthalene	ug/kg		170 JN	
51783-46-1	1-Ethenyl-2,3-Dihydro-1H-Indene	ug/kg			
874-35-1	1H-Indene 2,3-Dihydro-5-Methyl-	ug/kg		150 JN	
6682-71-9	1H-Indene, 2,3-Dihydro-4,7-Dimethyl-	ug/kg			
1587-04-8	1-Methyl-2(2-Propenyl)-Benzene	ug/kg		200 JN	
1074-17-5	1-Methyl-2-Propylbenzene	ug/kg			130 JN
90-12-0	1-Methylnaphthalene	ug/kg			
829-26-5	2,3,6-Trimethylnaphthalene	ug/kg	8.1 JN		
1685-82-1	2,3-Dihydro-4,6-Dimethyl-1H-Indene	ug/kg			
581-40-8	2,3-Dimethyl Naphthalene	ug/kg			
4773-82-4	2,3-Dimethyl-1H-Indene	ug/kg			
638-36-8	2,6,10,14-Tetramethylhexadecane	ug/kg			
31295-56-4	2,6,11-Trimethyldodecane	ug/kg			
581-42-0	2,6-Dimethyl-Napthalene	ug/kg			25.5 JN
17301-23-4	2,6-Dimethylundecane	ug/kg			290 JN
582-16-1	2,7-Dimethyl Naphthalene	ug/kg			
95-49-8	2-CHLOROTOLUENE	ug/kg			
769-25-5	2-Ethenyl-1,3,5-Trimethylbenzene	ug/kg		190 JN	180 JN
939-27-5	2-Ethyl-naphthalene	ug/kg			
4110-44-5	3,3-Dimethyloctane	ug/kg			
934-74-7	3,5-Dimethyl-1-Ethylbenzene	ug/kg			23.3 JN
767-60-2	3-Methyl-1H-Indene	ug/kg			29.5 JN
941-81-1	4,6,8-Trimethylazulene	ug/kg	6.9 JN		
106-43-4	4-CHLOROTOLUENE	ug/kg			
622-96-8	4-ETHYLTOLUENE	ug/kg		160 JN	
2847-72-5	4-Methyl Decane	ug/kg			370 JN
1000192-41-3	4-Methyl-dodecan-1-ol	ug/kg			
17615-91-7	5,6-Dimethyl Undecane	ug/kg			
13151-35-4	5-Methyldecane	ug/kg			120 JN
1680-51-9	6-Methyltetralin	ug/kg			
107-13-1	ACRYLONITRILE	ug/kg			18.9 JN
628-63-7	Amyl Acetate (Mixed Isomers)	ug/kg			
4706-90-5	Benzene, 1,3-dimethyl-5-(1-methyle	ug/kg			
1560-06-1	Benzene, 2-Butenyl	ug/kg			180 JN
16587-48-7	Benzo[b]thiophene, 2,5-dimethyl-	ug/kg			
14315-14-1	Benzo[b]thiophene, 5-methyl-	ug/kg			
108-86-1	BROMOBENZENE	ug/kg			
638-04-0	cis-1,3-Dimethylcyclohexane	ug/kg			
61142-20-9	Cyclohexane, (4-Methylpentyl)-	ug/kg			
6783-92-2	Cyclohexane, 1,1,2,3-Tetramethyl-	ug/kg			260 JN
54411-01-7	Cyclohexane, 1-methyl-2-pent	ug/kg			
99-87-6	CYMENE	ug/kg		19.6 JN	57.6 JN
5359-04-6	Ethanone, 1-[4-(1-methylethenyl)phenyl]-	ug/kg			
141-78-6	ETHYL ACETATE	ug/kg			
67-72-1	HEXACHLOROETHANE	ug/kg			
108-21-4	Isopropyl Acetate	ug/kg			
108-20-3	Isopropyl Ether	ug/kg			
80-62-6	METHYL METHACRYLATE	ug/kg			
126-98-7	METHYLACRYLONITRILE	ug/kg			

				Dup of TP-17(3)-20151029		
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID:	TP-16	TP-17	TP-17	TP-17
		Sample ID:	TP-16(4)-20151029	TP-17(3)-20151029	TP-117(3)-20151029	TP-17(6)-20151029
		Lab Sample Id:	G4241-04	G4241-01	G4241-02	G4241-03
		Depth:	4 - 4 ft	3 - 3 ft	3 - 3 ft	6 - 6 ft
		Source:	CTECH	CTECH	CTECH	CTECH
		SDG:	G4241	G4241	G4241	G4241
		Matrix:	SO	SO	SO	SO
		Sampled:	10/29/2015 17:45	10/29/2015 17:35	10/29/2015 17:35	10/29/2015 17:40
		Validated:	2/23/2016	2/23/2016	2/23/2016	2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES TICs					
104-51-8	N-BUTYLBENZENE	ug/kg			97.7 JN	
112-40-3	N-Dodecane	ug/kg				
103-65-1	N-PROPYLBENZENE	ug/kg		25 JN	55 JN	
91-20-3	NAPHTHALENE	ug/kg		R	R	R
527-84-4	O-Cymene (O-Isopropyltoluene)	ug/kg			150 JN	17.6 JN
135-98-8	SEC-BUTYLBENZENE	ug/kg		15.8 JN	45.2 JN	1.5 JN
98-06-6	T-BUTYLBENZENE	ug/kg		2.3 JN	5.4 JN	
75-65-0	TERT-BUTYL ALCOHOL	ug/kg	34.3 JN		43.4 JN	
119-64-2	Tetralin	ug/kg				20.8 JN
110-01-0	Thiophene, tetrahydro-	ug/kg				
110-57-6	TRANS-1,4-DICHLORO-2-BUTENE	ug/kg				
493-02-7	Trans-Decahydro-Naphthalene	ug/kg				
UNKNOWN-0	unknown-01	ug/kg		150 J		
UNKNOWN12	unknown12.78	ug/kg				
UNKNOWN13	unknown13.80	ug/kg				
UNKNOWN15	unknown15.34	ug/kg				

				Dup of TP-17(3)-20151029	
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	TP-16 TP-16(4)-20151029 G4241-04 4 - 4 ft CTECH G4241 SO 10/29/2015 17:45 2/23/2016	TP-17 TP-17(3)-20151029 G4241-01 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-17(3)-20151029 G4241-02 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILE TICs				
301-02-0	(Z)-9-Octadecanimide	ug/kg			
13065-07-1	1,2,3,4-Tetrahydro-2,7-Dimethyl Naphthalene	ug/kg			
526-73-8	1,2,3-Trimethyl Benzene	ug/kg		1100 JN	
95-93-2	1,2,4,5-Tetramethylbenzene	ug/kg			
141-93-5	1,3-Diethyl Benzene	ug/kg		970 JN	
2131-42-2	1,4,6-Trimethylnaphthalene	ug/kg			
571-61-9	1,5-Dimethyl Naphthalene	ug/kg			
2245-38-7	1,6,7-Trimethylnaphthalene	ug/kg			
575-43-9	1,6-Dimethylnaphthalene	ug/kg		1100 JN	
1599-67-3	1-Docosene	ug/kg			98 JN
1127-76-0	1-Ethyl Naphthalene	ug/kg			
77899-03-7	1-Heneicosyl formate	ug/kg			
629-73-2	1-Hexadecene	ug/kg			
2051-33-4	1-Hexanol, 5-methyl-2-(1-methyleth	ug/kg	870 JN		
203-80-5	1H-Phenylene	ug/kg			
1730-37-6	1-Methylfluorene	ug/kg			
18435-45-5	1-Nonadecene	ug/kg			
629-76-5	1-Pentadecanol	ug/kg			440 JN
1000292-44-2	2- Bromopropionic Acid, Pentadecyl Ester	ug/kg		1300 JN	
829-26-5	2,3,6-Trimethylnaphthalene	ug/kg			
6117-98-2	2,3-Dimethyldodecane	ug/kg			
62108-23-0	2,5,6-Trimethyldecane	ug/kg			
111-02-4	2,6,10,14,18,22-Tetracosahexaene	ug/kg			
638-36-8	2,6,10,14-Tetramethylhexadecane	ug/kg	2200 JN		
54833-48-6	2,6,10,15-Tetramethylheptadecane	ug/kg	1400 JN	1800 JN	
31295-56-4	2,6,11-Trimethyldodecane	ug/kg		2300 JN	
2051-30-1	2,6-Dimethyl Octane	ug/kg	1000 JN		
4057-42-5	2,6-Dimethyl-2-Octene	ug/kg	1000 JN		
17301-23-4	2,6-Dimethylundecane	ug/kg			
55045-07-3	2-Methyl-8-Propyl-Dodecane	ug/kg	1600 JN		
3221-61-2	2-Methyloctane	ug/kg			
2531-84-2	2-Methylphenanthrene	ug/kg			
2136-70-1	2-Tetradecoxyethanol	ug/kg			
17312-55-9	3,8-Dimethyldecane	ug/kg			
832-71-3	3-Methyl Phenanthrene	ug/kg			
5911-04-6	3-Methylnonane	ug/kg			
96168-15-9	4,8,12,16-Tetramethylheptadecan-4-	ug/kg			
2216-32-2	4-Ethyl-Heptane	ug/kg			
203-64-5	4H-Cyclopenta[Def]Phenanthrene	ug/kg		1100 JN	
644-08-6	4-Methyl-Biphenyl	ug/kg			
7320-53-8	4-Methyldibenzofuran	ug/kg			
17301-94-9	4-Methyl-Nonane	ug/kg	900 JN		
17312-63-9	5-Butylnonane	ug/kg			
74685-30-6	5-Eicosene (E)-	ug/kg			
1430-97-3	9H-Fluorene, 2-Methyl-	ug/kg			
16587-40-9	Benzo[b]thiophene, 2,7-dimethyl-	ug/kg			
264-09-5	Benzocycloheptatrieneáá	ug/kg	1200 JN		
18992-03-5	Bromoacetic Acid, Octadecyl Ester	ug/kg			
61142-20-9	Cyclohexane, (4-Methylpentyl)-	ug/kg	1300 JN	1700 JN	
6783-92-2	Cyclohexane, 1,1,2,3-Tetramethyl-	ug/kg		1300 JN	
295-17-0	Cyclotetradecane	ug/kg			310 JN
2958-76-1	Decahydro-2-Methyl Naphthalene	ug/kg	1100 JN		
334-48-5	Decanoic Acid	ug/kg			
123-42-2	Diacetone Alcohol	ug/kg	R	R	R
132-65-0	Dibenzothiophene (Synfuel)	ug/kg			
12-95-8	Eicosane	ug/kg			
54833-23-7	EICOSANE, 10-METHYL-	ug/kg			
629-94-7	Heneicosane	ug/kg			
629-78-7	Heptadecane	ug/kg			
13287-23-5	Heptadecane, 8-Methyl-á	ug/kg			
1000282-97-3	Heptafluorobutanoic Acid, Heptadecy	ug/kg			
57-10-3	HEXADECANOIC ACID	ug/kg	440 JN		170 JN
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl ester	ug/kg			
36653-82-4	Hexadecanol	ug/kg	280 JN		

				Dup of TP-17(3)-20151029		
Iberdrola Pavillion Site 2015 Validated Soil Data SDG: G4241		Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	TP-16 TP-16(4)-20151029 G4241-04 4 - 4 ft CTECH G4241 SO 10/29/2015 17:45 2/23/2016	TP-17 TP-17(3)-20151029 G4241-01 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-117(3)-20151029 G4241-02 3 - 3 ft CTECH G4241 SO 10/29/2015 17:35 2/23/2016	TP-17 TP-17(6)-20151029 G4241-03 6 - 6 ft CTECH G4241 SO 10/29/2015 17:40 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
629-97-0	N-Docosane	ug/kg	120 JN		1700 JN	
112-95-8	N-Eicosane	ug/kg				
544-76-3	N-Hexadecane	ug/kg				
110-54-3	N-HEXANE	ug/kg				
593-45-3	N-Octadecane	ug/kg				
1120-07-6	Nonanamide	ug/kg				
1921-70-6	Norphytane	ug/kg				
646-31-1	N-Tetracosane	ug/kg				
629-59-4	N-Tetradecane	ug/kg				
629-50-5	N-Tridecane	ug/kg		110 JN		
1120-21-4	N-Undecane	ug/kg				
57-11-4	Octadecanoic Acid	ug/kg				
1795-15-9	Octyl Cyclohexane	ug/kg	1200 JN			
527-84-4	O-Cymene (O-Isopropyltoluene)	ug/kg				
629-62-9	Pentadecane	ug/kg	910 JN		990 JN	
1002-84-2	Pentadecanoic Acid	ug/kg				
4292-92-6	Pentyl-cyclohexane	ug/kg	140 JN			
88104-31-8	Propanoic Acid, 2-Chloro-, Octadecyl Ester	ug/kg				
7683-64-9	Squalene	ug/kg	140 JN			
544-63-8	Tetradecanoic Acid	ug/kg				
493-02-7	Trans-Decahydro-Naphthalene	ug/kg	850 JN	1200 JN	370 JN	
74339-54-1	Trichloroacetic Acid, Hexadecyl Ester	ug/kg				
74339-53-0	Trichloroacetic acid, pentadecyl e	ug/kg	530 JN			
UNKNOWN2	unknown2.20	ug/kg				
UNKNOWN6	unknown6.12	ug/kg	R			
UNKNOWN6	unknown6.14	ug/kg				
UNKNOWN6	unknown6.33	ug/kg		1300 J		
UNKNOWN6	unknown6.62	ug/kg				
UNKNOWN6	unknown6.64	ug/kg		940 J		
UNKNOWN6	unknown6.65	ug/kg				
UNKNOWN6	unknown6.66	ug/kg		3200 J		
UNKNOWN7	unknown7.21	ug/kg				
UNKNOWN7	unknown7.54	ug/kg		900 J		
UNKNOWN9	unknown9.38	ug/kg				
UNKNOWN10	unknown10.32	ug/kg	360 J			
UNKNOWN10	unknown10.34	ug/kg				
UNKNOWN12	unknown12.05	ug/kg	920 J			
UNKNOWN12	unknown12.44	ug/kg				
UNKNOWN12	unknown12.74	ug/kg	440 J			
UNKNOWN13	unknown13.54	ug/kg				

ATTACHMENT A-2

VALIDATED LABORATORY DATA FOR GROUNDWATER SAMPLES

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 SDG: G4587		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20151123 G4587-01 CTECH G4587 WATER 11/23/2015 10:40 2/23/2016	MW-02 MW-02-20151123 G4587-04 CTECH G4587 WATER 11/23/2015 15:30 2/23/2016	MW-03 MW-03-20151124 G4587-05 CTECH G4587 WATER 11/24/2015 10:05 2/23/2016	MW-04 MW-04-20151123 G4587-06 CTECH G4587 WATER 11/23/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/l	100 U	100 U	100 U	100 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	5 U	5 U	5 U	5 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U
74-97-5	BROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 UJ	1 UJ	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U
179601-23-1	M,P-XYLENES	ug/l	2 U	2 U	2 U	2 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	5 U	5 U	5 U	5 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U
95-47-6	O-XYLENE	ug/l	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 SDG: G4587		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20151123 G4587-01 CTECH G4587 WATER 11/23/2015 10:40 2/23/2016	MW-02 MW-02-20151123 G4587-04 CTECH G4587 WATER 11/23/2015 15:30 2/23/2016	MW-03 MW-03-20151124 G4587-05 CTECH G4587 WATER 11/24/2015 10:05 2/23/2016	MW-04 MW-04-20151123 G4587-06 CTECH G4587 WATER 11/23/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
120-83-2	2,4-DICHLOROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
105-67-9	2,4-DIMETHYLPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
51-28-5	2,4-DINITROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
121-14-2	2,4-DINITROTOLUENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
606-20-2	2,6-DINITROTOLUENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
91-58-7	2-CHLORONAPHTHALENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
95-57-8	2-CHLOROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
91-57-6	2-METHYLNAPHTHALENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
88-74-4	2-NITROANILINE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
88-75-5	2-NITROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
MEPH3MEPH	3+4-Methylphenols	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
99-09-2	3-NITROANILINE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
106-47-8	4-CHLOROANILINE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
100-01-6	4-NITROANILINE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
100-02-7	4-NITROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
83-32-9	ACENAPHTHENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
208-96-8	ACENAPHTHYLENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
98-86-2	ACETOPHENONE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
120-12-7	ANTHRACENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
1912-24-9	ATRAZINE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
100-52-7	BENZALDEHYDE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
56-55-3	BENZO(A)ANTHRACENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
50-32-8	BENZO(A)PYRENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
205-99-2	BENZO(B)FLUORANTHENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
207-08-9	BENZO(K)FLUORANTHENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
92-52-4	BIPHENYL (DIPHENYL)	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
105-60-2	CAPROLACTAM	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
86-74-8	CARBAZOLE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
218-01-9	CHRYSENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
132-64-9	DIBENZOFURAN	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
84-66-2	DIETHYL PHTHALATE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
131-11-3	DIMETHYL PHTHALATE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
206-44-0	FLUORANTHENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
86-73-7	FLUORENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
118-74-1	HEXACHLOROBENZENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
87-68-3	HEXACHLOROBUTADIENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
67-72-1	HEXACHLOROETHANE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
78-59-1	ISOPHORONE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
91-20-3	NAPHTHALENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
98-95-3	NITROBENZENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
87-86-5	PENTACHLOROPHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
85-01-8	PHENANTHRENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
108-95-2	PHENOL	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
129-00-0	PYRENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/l	10.4 U	10.4 U	10.8 U	10.4 U

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 SDG: G4587		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20151123 G4587-01 CTECH G4587 WATER 11/23/2015 10:40 2/23/2016	MW-02 MW-02-20151123 G4587-04 CTECH G4587 WATER 11/23/2015 15:30 2/23/2016	MW-03 MW-03-20151124 G4587-05 CTECH G4587 WATER 11/24/2015 10:05 2/23/2016	MW-04 MW-04-20151123 G4587-06 CTECH G4587 WATER 11/23/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:				
PESTICIDES						
309-00-2	ALDRIN	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
319-84-6	ALPHA BHC	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
959-98-8	ALPHA ENDOSULFAN	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
5103-71-9	ALPHA-CHLORDANE	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
319-85-7	BETA BHC	ug/l	0.051 UJ	0.0505 UJ	0.051 UJ	0.0515 UJ
33213-65-9	BETA ENDOSULFAN	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
5103-74-2	BETA-CHLORDANE	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
319-86-8	DELTA BHC	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
60-57-1	DIELDRIN	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
1031-07-8	ENDOSULFAN SULFATE	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
72-20-8	ENDRIN	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
7421-93-4	ENDRIN ALDEHYDE	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
53494-70-5	ENDRIN KETONE	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
58-89-9	GAMMA BHC (LINDANE)	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
76-44-8	HEPTACHLOR	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
72-43-5	METHOXYCHLOR	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
72-54-8	P,P'-DDD	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
72-55-9	P,P'-DDE	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
50-29-3	P,P'-DDT	ug/l	0.051 U	0.0505 U	0.051 U	0.0515 U
8001-35-2	TOXAPHENE	ug/l	0.5102 U	0.5051 U	0.5102 U	0.5155 U
PCBs						
12674-11-2	PCB-1016 (AROCOR 1016)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
11104-28-2	PCB-1221 (AROCOR 1221)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
11141-16-5	PCB-1232 (AROCOR 1232)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
53469-21-9	PCB-1242 (AROCOR 1242)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
12672-29-6	PCB-1248 (AROCOR 1248)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
11097-69-1	PCB-1254 (AROCOR 1254)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
11096-82-5	PCB-1260 (AROCOR 1260)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
37324-23-5	PCB-1262 (AROCOR 1262)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
11100-14-4	PCB-1268 (AROCOR 1268)	ug/l	0.5208 U	0.5319 U	0.5208 U	0.5263 U
HERBICIDES						
94-75-7	2,4-D	ug/l	2.1 U	2.1 U	2.1 U	2 U
93-72-1	SILVEX (2,4,5-TP)	ug/l	2.1 U	2.1 U	2.1 U	2 U
1918-00-9	DICAMBA	ug/l	2.1 U	2.1 U	2.1 U	2 U
120-36-5	DICHLOROPROP	ug/l	2.1 U	2.1 U	2.1 U	2 U
88-85-7	DINOSEB	ug/l	2.1 U	2.1 U	2.1 U	2 U
93-76-5	2,4,5-T	ug/l	2.1 U	2.1 U	2.1 U	2 U
94-82-6	2,4 DB	ug/l	2.1 U	2.1 U	2.1 U	2 U
INORGANICS						
7429-90-5	ALUMINUM	ug/l	58.9	77.2	51.6	55.6
7440-36-0	ANTIMONY	ug/l	25 U	25 U	25 U	25 U
7440-38-2	ARSENIC	ug/l	10 U	7.53 J	10 U	5.98 J
7440-39-3	BARIUM	ug/l	79.4 J+	445	87	385
7440-41-7	BERYLLIUM	ug/l	3 U	3 U	3 U	3 U
7440-43-9	CADMIUM	ug/l	3 U	3 U	3 U	3 U
7440-70-2	CALCIUM	ug/l	109700 J	188400	71100	74200
7440-47-3	CHROMIUM, TOTAL	ug/l	5 U	5 U	5 U	5 U
7440-48-4	COBALT	ug/l	15 U	15 U	15 U	15 U
7440-50-8	COPPER	ug/l	10 U	10 U	10 U	10 U
7439-89-6	IRON	ug/l	347	11900	44.5 J	5690
7439-92-1	LEAD	ug/l	6 U	6 U	6 U	6 U
7439-95-4	MAGNESIUM	ug/l	38300	14700	7820	8660
7439-96-5	MANGANESE	ug/l	96.5 J	982	207	861
7439-97-6	MERCURY	ug/l	0.2 U	0.291	0.2 U	0.119 J
7440-02-0	NICKEL	ug/l	20 U	20 U	20 U	7 J
7440-09-7	POTASSIUM	ug/l	1960 J	5720	2920	2600
7782-49-2	SELENIUM	ug/l	14 J+	10.25 J+	16.8 J+	12.2 J+
7440-22-4	SILVER	ug/l	5 U	5 U	5 U	5 U
7440-23-5	SODIUM	ug/l	34900	370100	92400	277400
7440-28-0	THALLIUM	ug/l	20 U	20 U	20 U	20 U
7440-62-2	VANADIUM	ug/l	20 U	20 U	20 U	20 U
7440-66-6	ZINC	ug/l	34.1	6.23 J	20 U	20 U
57-12-5	CYANIDE	ug/l	5 UJ	21	27	5 U
FREE CN	CYANIDE (FREE)	ug/l	5 UJ	5 U	5 U	5 U
CAN	CYANIDE, AMENABLE	ug/l	5 UJ	5 U	7	5 U

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 SDG: G4587		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20151123 G4587-01 CTECH G4587 WATER 11/23/2015 10:40 2/23/2016	MW-02 MW-02-20151123 G4587-04 CTECH G4587 WATER 11/23/2015 15:30 2/23/2016	MW-03 MW-03-20151124 G4587-05 CTECH G4587 WATER 11/24/2015 10:05 2/23/2016	MW-04 MW-04-20151123 G4587-06 CTECH G4587 WATER 11/23/2015 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
123-42-2	Diacetone Alcohol	ug/l			R	R
UNKNOWN6	unknown6.32	ug/l	87.7 J		83.9 J	87 J
57-10-3	HEXADECANOIC ACID	ug/l				
74685-33-9	3-Eicosene, (E)-áááááááá	ug/l				
123-42-2	Diacetone Alcohol	ug/l	R			

				Dup of MW-05-20151124	
Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 SDG: G4587		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05-20151124 G4587-07 CTECH G4587 WATER 11/24/2015 12:15 2/23/2016	MW-05 MW-105-20151124 G4587-08 CTECH G4587 WATER 11/24/2015 14:15 2/23/2016	TB-001 TB-001-20151124 G4587-09 CTECH G4587 WATER 11/24/2015 0:00 2/23/2016
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/l	100 U	100 U	100 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	5 U	5 U	5 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U
74-97-5	BROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 UJ	1 UJ	1 UJ
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U
179601-23-1	M,P-XYLENES	ug/l	2 U	2 U	2 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	5 U	5 U	5 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U
95-47-6	O-XYLENE	ug/l	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	1 U	1 U
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U

				Dup of MW-05-20151124	
Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 SDG: G4587		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05-20151124 G4587-07 CTECH G4587 WATER 11/24/2015 12:15 2/23/2016	MW-05 MW-105-20151124 G4587-08 CTECH G4587 WATER 11/24/2015 14:15 2/23/2016	TB-001 TB-001-20151124 G4587-09 CTECH G4587 WATER 11/24/2015 0:00 2/23/2016
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILES				
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/l	10.3 U	10.4 U	
95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	10.3 U	10.4 U	
88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	10.3 U	10.4 U	
120-83-2	2,4-DICHLOROPHENOL	ug/l	10.3 U	10.4 U	
105-67-9	2,4-DIMETHYLPHENOL	ug/l	10.3 U	10.4 U	
51-28-5	2,4-DINITROPHENOL	ug/l	10.3 U	10.4 U	
121-14-2	2,4-DINITROTOLUENE	ug/l	10.3 U	10.4 U	
606-20-2	2,6-DINITROTOLUENE	ug/l	10.3 U	10.4 U	
91-58-7	2-CHLORONAPHTHALENE	ug/l	10.3 U	10.4 U	
95-57-8	2-CHLOROPHENOL	ug/l	10.3 U	10.4 U	
91-57-6	2-METHYLNAPHTHALENE	ug/l	10.3 U	10.4 U	
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/l	10.3 U	10.4 U	
88-74-4	2-NITROANILINE	ug/l	10.3 U	10.4 U	
88-75-5	2-NITROPHENOL	ug/l	10.3 U	10.4 U	
91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	10.3 U	10.4 U	
MEPH3MEPH	3+4-Methylphenols	ug/l	10.3 U	10.4 U	
99-09-2	3-NITROANILINE	ug/l	10.3 U	10.4 U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	10.3 U	10.4 U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	10.3 U	10.4 U	
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	10.3 U	10.4 U	
106-47-8	4-CHLOROANILINE	ug/l	10.3 U	10.4 U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	10.3 U	10.4 U	
100-01-6	4-NITROANILINE	ug/l	10.3 U	10.4 U	
100-02-7	4-NITROPHENOL	ug/l	10.3 U	10.4 U	
83-32-9	ACENAPHTHENE	ug/l	10.3 U	10.4 U	
208-96-8	ACENAPHTHYLENE	ug/l	10.3 U	10.4 U	
98-86-2	ACETOPHENONE	ug/l	10.3 U	10.4 U	
120-12-7	ANTHRACENE	ug/l	10.3 U	10.4 U	
1912-24-9	ATRAZINE	ug/l	10.3 U	10.4 U	
100-52-7	BENZALDEHYDE	ug/l	10.3 U	10.4 U	
56-55-3	BENZO(A)ANTHRACENE	ug/l	10.3 U	10.4 U	
50-32-8	BENZO(A)PYRENE	ug/l	10.3 U	10.4 U	
205-99-2	BENZO(B)FLUORANTHENE	ug/l	10.3 U	10.4 U	
191-24-2	BENZO(G,H,I)PERYLENE	ug/l	10.3 U	10.4 U	
207-08-9	BENZO(K)FLUORANTHENE	ug/l	10.3 U	10.4 U	
85-68-7	BENZYL BUTYL PHTHALATE	ug/l	10.3 U	10.4 U	
92-52-4	BIPHENYL (DIPHENYL)	ug/l	10.3 U	10.4 U	
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	10.3 U	10.4 U	
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/l	10.3 U	10.4 U	
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/l	10.3 U	10.4 U	
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	10.3 U	10.4 U	
105-60-2	CAPROLACTAM	ug/l	10.3 U	10.4 U	
86-74-8	CARBAZOLE	ug/l	10.3 U	10.4 U	
218-01-9	CHRYSENE	ug/l	10.3 U	10.4 U	
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	10.3 U	10.4 U	
132-64-9	DIBENZOFURAN	ug/l	10.3 U	10.4 U	
84-66-2	DIETHYL PHTHALATE	ug/l	10.3 U	10.4 U	
131-11-3	DIMETHYL PHTHALATE	ug/l	10.3 U	10.4 U	
84-74-2	DI-N-BUTYL PHTHALATE	ug/l	10.3 U	10.4 U	
117-84-0	DI-N-OCTYLPHTHALATE	ug/l	10.3 U	10.4 U	
206-44-0	FLUORANTHENE	ug/l	10.3 U	10.4 U	
86-73-7	FLUORENE	ug/l	10.3 U	10.4 U	
118-74-1	HEXACHLOROBENZENE	ug/l	10.3 U	10.4 U	
87-68-3	HEXACHLOROBUTADIENE	ug/l	10.3 U	10.4 U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	10.3 U	10.4 U	
67-72-1	HEXACHLOROETHANE	ug/l	10.3 U	10.4 U	
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	10.3 U	10.4 U	
78-59-1	ISOPHORONE	ug/l	10.3 U	10.4 U	
91-20-3	NAPHTHALENE	ug/l	10.3 U	10.4 U	
98-95-3	NITROBENZENE	ug/l	10.3 U	10.4 U	
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	10.3 U	10.4 U	
86-30-6	N-NITROSODIPHENYLAMINE	ug/l	10.3 U	10.4 U	
87-86-5	PENTACHLOROPHENOL	ug/l	10.3 U	10.4 U	
85-01-8	PHENANTHRENE	ug/l	10.3 U	10.4 U	
108-95-2	PHENOL	ug/l	10.3 U	10.4 U	
129-00-0	PYRENE	ug/l	10.3 U	10.4 U	
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/l	10.3 U	10.4 U	

				Dup of MW-05-20151124	
Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 SDG: G4587		Location ID: Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05-20151124 G4587-07 CTECH G4587 WATER 11/24/2015 12:15 2/23/2016	MW-05 MW-105-20151124 G4587-08 CTECH G4587 WATER 11/24/2015 14:15 2/23/2016	TB-001 TB-001-20151124 G4587-09 CTECH G4587 WATER 11/24/2015 0:00 2/23/2016
CAS NO.	COMPOUND	UNITS:			
PESTICIDES					
309-00-2	ALDRIN	ug/l	0.0521 U	0.0515 U	
319-84-6	ALPHA BHC	ug/l	0.0521 U	0.0515 U	
959-98-8	ALPHA ENDOSULFAN	ug/l	0.0521 U	0.0515 U	
5103-71-9	ALPHA-CHLORDANE	ug/l	0.0521 U	0.0515 U	
319-85-7	BETA BHC	ug/l	0.0521 UJ	0.0515 UJ	
33213-65-9	BETA ENDOSULFAN	ug/l	0.0521 U	0.0515 U	
5103-74-2	BETA-CHLORDANE	ug/l	0.0521 U	0.0515 U	
319-86-8	DELTA BHC	ug/l	0.0521 U	0.0515 U	
60-57-1	DIELDRIN	ug/l	0.0521 U	0.0515 U	
1031-07-8	ENDOSULFAN SULFATE	ug/l	0.0521 U	0.0515 U	
72-20-8	ENDRIN	ug/l	0.0521 U	0.0515 U	
7421-93-4	ENDRIN ALDEHYDE	ug/l	0.0521 U	0.0515 U	
53494-70-5	ENDRIN KETONE	ug/l	0.0521 U	0.0515 U	
58-89-9	GAMMA BHC (LINDANE)	ug/l	0.0521 U	0.0515 U	
76-44-8	HEPTACHLOR	ug/l	0.0521 U	0.0515 U	
1024-57-3	HEPTACHLOR EPOXIDE	ug/l	0.0521 U	0.0515 U	
72-43-5	METHOXYCHLOR	ug/l	0.0521 U	0.0515 U	
72-54-8	P,P'-DDD	ug/l	0.0521 U	0.0515 U	
72-55-9	P,P'-DDE	ug/l	0.0521 U	0.0515 U	
50-29-3	P,P'-DDT	ug/l	0.0521 U	0.0515 U	
8001-35-2	TOXAPHENE	ug/l	0.5208 U	0.5155 U	
PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/l	0.5208 U	0.5102 U	
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/l	0.5208 U	0.5102 U	
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/l	0.5208 U	0.5102 U	
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/l	0.5208 U	0.5102 U	
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/l	0.5208 U	0.5102 U	
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/l	0.5208 U	0.5102 U	
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/l	0.5208 U	0.5102 U	
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/l	0.5208 U	0.5102 U	
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/l	0.5208 U	0.5102 U	
HERBICIDES					
94-75-7	2,4-D	ug/l	2.1 U	2.1 U	
93-72-1	SILVEX (2,4,5-TP)	ug/l	2.1 U	2.1 U	
1918-00-9	DICAMBA	ug/l	2.1 U	2.1 U	
120-36-5	DICHLOROPROP	ug/l	2.1 U	2.1 U	
88-85-7	DINOSEB	ug/l	2.1 U	2.1 U	
93-76-5	2,4,5-T	ug/l	2.1 U	2.1 U	
94-82-6	2,4 DB	ug/l	2.1 U	2.1 U	
INORGANICS					
7429-90-5	ALUMINUM	ug/l	74.6	86	
7440-36-0	ANTIMONY	ug/l	25 U	25 U	
7440-38-2	ARSENIC	ug/l	3.14 J	3.9 J	
7440-39-3	BARIUM	ug/l	219	211	
7440-41-7	BERYLLIUM	ug/l	3 U	3 U	
7440-43-9	CADMIUM	ug/l	3 U	3 U	
7440-70-2	CALCIUM	ug/l	172500	166400	
7440-47-3	CHROMIUM, TOTAL	ug/l	1.3 J	5 U	
7440-48-4	COBALT	ug/l	15 U	15 U	
7440-50-8	COPPER	ug/l	10 U	10 U	
7439-89-6	IRON	ug/l	995	932	
7439-92-1	LEAD	ug/l	6 U	6 U	
7439-95-4	MAGNESIUM	ug/l	21400	20700	
7439-96-5	MANGANESE	ug/l	678	639	
7439-97-6	MERCURY	ug/l	0.2 U	0.2 U	
7440-02-0	NICKEL	ug/l	20 U	20 U	
7440-09-7	POTASSIUM	ug/l	4400	4190	
7782-49-2	SELENIUM	ug/l	17.6 J+	14.6 J+	
7440-22-4	SILVER	ug/l	5 U	5 U	
7440-23-5	SODIUM	ug/l	219300	211000	
7440-28-0	THALLIUM	ug/l	20 U	20 U	
7440-62-2	VANADIUM	ug/l	20 U	20 U	
7440-66-6	ZINC	ug/l	20 U	20 U	
57-12-5	CYANIDE	ug/l	10	11	
FREE CN	CYANIDE (FREE)	ug/l	5 U	5 U	
CAN	CYANIDE, AMENABLE	ug/l	5 U	5 U	

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 1 SDG: G4587		Location ID:	MW-05	Dup of MW-05-20151124	
		Sample ID:	MW-05-20151124	MW-05	TB-001
		Lab Sample Id:	G4587-07	MW-105-20151124	TB-001-20151124
		Source:	G4587-08	G4587-08	G4587-09
		SDG:	CTECH	CTECH	CTECH
		Matrix:	G4587	G4587	G4587
		Sampled:	WATER	WATER	WATER
		Validated:	11/24/2015 12:15	11/24/2015 14:15	11/24/2015 0:00
			2/23/2016	2/23/2016	2/23/2016
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILE TICs				
123-42-2	Diacetone Alcohol	ug/l	R	R	
UNKNOWN6	unknown6.32	ug/l	79.8 J	78.6 J	
57-10-3	HEXADECANOIC ACID	ug/l		2.5 JN	
74685-33-9	3-Eicosene, (E)-ááááááá	ug/l		2.3 J	
123-42-2	Diacetone Alcohol	ug/l			

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 2 SDG: H1201		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20160120 H1201-01 CTECH H1201 WATER 1/20/2016 11:00 2/23/2016	MW-02 MW-02-20160121 H1201-04 CTECH H1201 WATER 1/21/2016 9:20 2/23/2016	MW-03 MW-03-20160121 H1201-05 CTECH H1201 WATER 1/21/2016 11:30 2/23/2016	MW-04 MW-04-20160120 H1201-06 CTECH H1201 WATER 1/20/2016 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/l	100 U	100 U	100 U	100 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	5 U	5 U	5 U	5 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U
74-97-5	BROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 UJ	1 UJ	1 UJ	1 UJ
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U
179601-23-1	M,P-XYLENES	ug/l	2 U	2 U	2 U	2 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	5 U	5 U	5 U	5 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U
95-47-6	O-XYLENE	ug/l	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 2 SDG: H1201		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20160120 H1201-01 CTECH H1201 WATER 1/20/2016 11:00 2/23/2016	MW-02 MW-02-20160121 H1201-04 CTECH H1201 WATER 1/21/2016 9:20 2/23/2016	MW-03 MW-03-20160121 H1201-05 CTECH H1201 WATER 1/21/2016 11:30 2/23/2016	MW-04 MW-04-20160120 H1201-06 CTECH H1201 WATER 1/20/2016 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
120-83-2	2,4-DICHLOROPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
105-67-9	2,4-DIMETHYLPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
51-28-5	2,4-DINITROPHENOL	ug/l	R	R	R	R
121-14-2	2,4-DINITROTOLUENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
606-20-2	2,6-DINITROTOLUENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
91-58-7	2-CHLORONAPHTHALENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
95-57-8	2-CHLOROPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
91-57-6	2-METHYLNAPHTHALENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
88-74-4	2-NITROANILINE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
88-75-5	2-NITROPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
MEPH3MEPH	3+4-METHYLPHENOLS	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
99-09-2	3-NITROANILINE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
106-47-8	4-CHLOROANILINE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
100-01-6	4-NITROANILINE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
100-02-7	4-NITROPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
83-32-9	ACENAPHTHENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
208-96-8	ACENAPHTHYLENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
98-86-2	ACETOPHENONE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
120-12-7	ANTHRACENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
1912-24-9	ATRAZINE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
100-52-7	BENZALDEHYDE	ug/l	R	R	R	R
56-55-3	BENZO(A)ANTHRACENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
50-32-8	BENZO(A)PYRENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
205-99-2	BENZO(B)FLUORANTHENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
207-08-9	BENZO(K)FLUORANTHENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
92-52-4	BIPHENYL (DIPHENYL)	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
105-60-2	CAPROLACTAM	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
86-74-8	CARBAZOLE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
218-01-9	CHRYSENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
132-64-9	DIBENZOFURAN	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
84-66-2	DIETHYL PHTHALATE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
131-11-3	DIMETHYL PHTHALATE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
206-44-0	FLUORANTHENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
86-73-7	FLUORENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
118-74-1	HEXACHLOROBENZENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
87-68-3	HEXACHLOROBUTADIENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
67-72-1	HEXACHLOROETHANE	ug/l	10.4 UJ	10.3 UJ	10.4 UJ	11.1 UJ
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
78-59-1	ISOPHORONE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
91-20-3	NAPHTHALENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
98-95-3	NITROBENZENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
87-86-5	PENTACHLOROPHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
85-01-8	PHENANTHRENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
108-95-2	PHENOL	ug/l	10.4 U	10.3 U	10.4 U	11.1 U
129-00-0	PYRENE	ug/l	10.4 UJ	10.3 UJ	10.4 UJ	11.1 UJ
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/l	10.4 U	10.3 U	10.4 U	11.1 U

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 2 SDG: H1201		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20160120 H1201-01 CTECH H1201 WATER 1/20/2016 11:00 2/23/2016	MW-02 MW-02-20160121 H1201-04 CTECH H1201 WATER 1/21/2016 9:20 2/23/2016	MW-03 MW-03-20160121 H1201-05 CTECH H1201 WATER 1/21/2016 11:30 2/23/2016	MW-04 MW-04-20160120 H1201-06 CTECH H1201 WATER 1/20/2016 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:				
PESTICIDES						
309-00-2	ALDRIN	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
319-84-6	ALPHA BHC	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
959-98-8	ALPHA ENDOSULFAN	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
5103-71-9	ALPHA-CHLORDANE	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
319-85-7	BETA BHC	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
33213-65-9	BETA ENDOSULFAN	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
5103-74-2	BETA-CHLORDANE	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
319-86-8	DELTA BHC	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
60-57-1	DIELDRIN	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
1031-07-8	ENDOSULFAN SULFATE	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
72-20-8	ENDRIN	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
7421-93-4	ENDRIN ALDEHYDE	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
53494-70-5	ENDRIN KETONE	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
58-89-9	GAMMA BHC (LINDANE)	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
76-44-8	HEPTACHLOR	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
72-43-5	METHOXYCHLOR	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
72-54-8	P,P'-DDD	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
72-55-9	P,P'-DDE	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
50-29-3	P,P'-DDT	ug/l	0.0521 U	0.0521 U	0.0526 U	0.0538 U
8001-35-2	TOXAPHENE	ug/l	0.5208 U	0.5208 U	0.5263 U	0.5376 U
PCBs						
12674-11-2	PCB-1016 (AROCOR 1016)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
11104-28-2	PCB-1221 (AROCOR 1221)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
11141-16-5	PCB-1232 (AROCOR 1232)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
53469-21-9	PCB-1242 (AROCOR 1242)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
12672-29-6	PCB-1248 (AROCOR 1248)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
11097-69-1	PCB-1254 (AROCOR 1254)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
11096-82-5	PCB-1260 (AROCOR 1260)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
37324-23-5	PCB-1262 (AROCOR 1262)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
11100-14-4	PCB-1268 (AROCOR 1268)	ug/l	0.5263 U	0.5319 U	0.5102 U	0.5208 U
HERBICIDES						
94-75-7	2,4-D	ug/l	2.1 U	2.2 U	2.2 U	2 U
93-72-1	SILVEX (2,4,5-TP)	ug/l	2.1 U	2.2 U	2.2 U	2 U
1918-00-9	DICAMBA	ug/l	2.1 U	2.2 U	2.2 U	2 U
120-36-5	DICHLOROPROP	ug/l	2.1 U	2.2 U	2.2 U	2 U
88-85-7	DINOSEB	ug/l	2.1 U	2.2 U	2.2 U	2 U
93-76-5	2,4,5-T	ug/l	2.1 U	2.2 U	2.2 U	2 U
94-82-6	2,4 DB	ug/l	2.1 U	2.2 U	2.2 U	2 U
INORGANICS						
7429-90-5	ALUMINUM	ug/l	228	131	78.1	96.5
7440-36-0	ANTIMONY	ug/l	25 U	25 U	25 U	25 U
7440-38-2	ARSENIC	ug/l	10 U	3.7 J	10 U	7.12 J
7440-39-3	BARIIUM	ug/l	70.3	385	76.7	417
7440-41-7	BERYLLIUM	ug/l	3 U	3 U	3 U	3 U
7440-43-9	CADMIUM	ug/l	3 U	3 U	3 U	3 U
7440-70-2	CALCIUM	ug/l	98700	185000	70300	88100
7440-47-3	CHROMIUM, TOTAL	ug/l	5.27 J	39	26.3	8.11
7440-48-4	COBALT	ug/l	15 U	15 U	15 U	15 U
7440-50-8	COPPER	ug/l	10 U	10 U	10 U	10 U
7439-89-6	IRON	ug/l	263	11500	120	9870
7439-92-1	LEAD	ug/l	6 U	6 U	6 U	6 U
7439-95-4	MAGNESIUM	ug/l	30100	14100	7420	9870
7439-96-5	MANGANESE	ug/l	64.3	1010	238	922
7439-97-6	MERCURY	ug/l	0.2 U	0.486	0.2 U	0.244
7440-02-0	NICKEL	ug/l	4.56 J	9.01 J	6.99 J	9.74 J
7440-09-7	POTASSIUM	ug/l	3360	4710	2400	2140
7782-49-2	SELENIUM	ug/l	7.51 J	6.79 J	10.14	7.79 J
7440-22-4	SILVER	ug/l	5 U	5 U	5 U	5 U
7440-23-5	SODIUM	ug/l	45100	377000	87900	306000
7440-28-0	THALLIUM	ug/l	20 U	20 U	20 U	20 U
7440-62-2	VANADIUM	ug/l	20 U	20 U	20 U	20 U
7440-66-6	ZINC	ug/l	42.9	7.68 J	8.31 J	20 U
57-12-5	CYANIDE	ug/l	5 U	7	14	5 U
FREE CN	CYANIDE (FREE)	ug/l	5 U	5 U	5 U	5 U
CAN	CYANIDE, AMENABLE	ug/l	5 U	5 U	5 U	5 U

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 2 SDG: H1201		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-01 MW-01-20160120 H1201-01 CTECH H1201 WATER 1/20/2016 11:00 2/23/2016	MW-02 MW-02-20160121 H1201-04 CTECH H1201 WATER 1/21/2016 9:20 2/23/2016	MW-03 MW-03-20160121 H1201-05 CTECH H1201 WATER 1/21/2016 11:30 2/23/2016	MW-04 MW-04-20160120 H1201-06 CTECH H1201 WATER 1/20/2016 14:00 2/23/2016
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
110-01-0	Thiophene, tetrahydro-	ug/l		2.3 JN		
141-79-7	Mesityl Oxide	ug/l	R	R	R	R
123-42-2	Diacetone Alcohol	ug/l	R	R	R	R
107-70-0	2-Pentanone, 4-Methoxy-4-Methyl-	ug/l		R	R	R
111-90-0	Diethylene Glycol Monoethyl Ether	ug/l		3.7 JN		2.3 JN
UNKNOWN6	unknown6.51	ug/l	R	R	R	R
638-53-9	Tridecanoic Acid	ug/l		8.5 JN		
57-11-4	Octadecanoic Acid	ug/l		3 JN		
74685-33-9	3-Eicosene, (E)-áááááááá	ug/l				
107-70-0	2-Pentanone, 4-Methoxy-4-Methyl-	ug/l	R			

				Dup of MW-05-20160121	
Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 2 SDG: H1201		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05-20160121 H1201-07 CTECH H1201 WATER 1/21/2016 14:00 2/23/2016	MW-05 MW-105-20160121 H1201-08 CTECH H1201 WATER 1/21/2016 15:00 2/23/2016	FIELDQC TB-001-20160121 H1201-09 CTECH H1201 WATER 1/21/2016 0:00 2/23/2016
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/l	100 U	100 U	100 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	5 U	5 U	5 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U
74-97-5	BROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 UJ	1 UJ	1 UJ
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U
179601-23-1	M,P-XYLENES	ug/l	2 U	2 U	2 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	5 U	5 U	5 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U
95-47-6	O-XYLENE	ug/l	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	1 U	1 U
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U

				Dup of MW-05-20160121	
Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 2 SDG: H1201		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05-20160121 H1201-07 CTECH H1201 WATER 1/21/2016 14:00 2/23/2016	MW-05 MW-105-20160121 H1201-08 CTECH H1201 WATER 1/21/2016 15:00 2/23/2016	FIELDQC TB-001-20160121 H1201-09 CTECH H1201 WATER 1/21/2016 0:00 2/23/2016
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILES				
58-90-2	2,3,4,6-TETRACHLOROPHENOL	ug/l	10.9 U	10.8 U	
95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	10.9 U	10.8 U	
88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	10.9 U	10.8 U	
120-83-2	2,4-DICHLOROPHENOL	ug/l	10.9 U	10.8 U	
105-67-9	2,4-DIMETHYLPHENOL	ug/l	10.9 U	10.8 U	
51-28-5	2,4-DINITROPHENOL	ug/l	R	R	
121-14-2	2,4-DINITROTOLUENE	ug/l	10.9 U	10.8 U	
606-20-2	2,6-DINITROTOLUENE	ug/l	10.9 U	10.8 U	
91-58-7	2-CHLORONAPHTHALENE	ug/l	10.9 U	10.8 U	
95-57-8	2-CHLOROPHENOL	ug/l	10.9 U	10.8 U	
91-57-6	2-METHYLNAPHTHALENE	ug/l	10.9 U	10.8 U	
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/l	10.9 U	10.8 U	
88-74-4	2-NITROANILINE	ug/l	10.9 U	10.8 U	
88-75-5	2-NITROPHENOL	ug/l	10.9 U	10.8 U	
91-94-1	3,3'-DICHLORO BENZIDINE	ug/l	10.9 U	10.8 U	
MEPH3MEPH	3+4-METHYLPHENOLS	ug/l	10.9 U	10.8 U	
99-09-2	3-NITROANILINE	ug/l	10.9 U	10.8 U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	10.9 U	10.8 U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	10.9 U	10.8 U	
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	10.9 U	10.8 U	
106-47-8	4-CHLOROANILINE	ug/l	10.9 U	10.8 U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	10.9 U	10.8 U	
100-01-6	4-NITROANILINE	ug/l	10.9 U	10.8 U	
100-02-7	4-NITROPHENOL	ug/l	10.9 U	10.8 U	
83-32-9	ACENAPHTHENE	ug/l	10.9 U	10.8 U	
208-96-8	ACENAPHTHYLENE	ug/l	10.9 U	10.8 U	
98-86-2	ACETOPHENONE	ug/l	10.9 U	10.8 U	
120-12-7	ANTHRACENE	ug/l	10.9 U	10.8 U	
1912-24-9	ATRAZINE	ug/l	10.9 U	10.8 U	
100-52-7	BENZALDEHYDE	ug/l	R	R	
56-55-3	BENZO(A)ANTHRACENE	ug/l	10.9 U	10.8 U	
50-32-8	BENZO(A)PYRENE	ug/l	10.9 U	10.8 U	
205-99-2	BENZO(B)FLUORANTHENE	ug/l	10.9 U	10.8 U	
191-24-2	BENZO(G,H,I)PERYLENE	ug/l	10.9 U	10.8 U	
207-08-9	BENZO(K)FLUORANTHENE	ug/l	10.9 U	10.8 U	
85-68-7	BENZYL BUTYL PHTHALATE	ug/l	10.9 U	10.8 U	
92-52-4	BIPHENYL (DIPHENYL)	ug/l	10.9 U	10.8 U	
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	10.9 U	10.8 U	
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/l	10.9 U	10.8 U	
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/l	10.9 U	10.8 U	
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	10.9 U	10.8 U	
105-60-2	CAPROLACTAM	ug/l	10.9 U	10.8 U	
86-74-8	CARBAZOLE	ug/l	10.9 U	10.8 U	
218-01-9	CHRYSENE	ug/l	10.9 U	10.8 U	
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	10.9 U	10.8 U	
132-64-9	DIBENZOFURAN	ug/l	10.9 U	10.8 U	
84-66-2	DIETHYL PHTHALATE	ug/l	10.9 U	10.8 U	
131-11-3	DIMETHYL PHTHALATE	ug/l	10.9 U	10.8 U	
84-74-2	DI-N-BUTYL PHTHALATE	ug/l	10.9 U	10.8 U	
117-84-0	DI-N-OCTYL PHTHALATE	ug/l	10.9 U	10.8 U	
206-44-0	FLUORANTHENE	ug/l	10.9 U	10.8 U	
86-73-7	FLUORENE	ug/l	10.9 U	10.8 U	
118-74-1	HEXACHLOROBENZENE	ug/l	10.9 U	10.8 U	
87-68-3	HEXACHLOROBUTADIENE	ug/l	10.9 U	10.8 U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	10.9 U	10.8 U	
67-72-1	HEXACHLOROETHANE	ug/l	10.9 UJ	10.8 UJ	
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	10.9 U	10.8 U	
78-59-1	ISOPHORONE	ug/l	10.9 U	10.8 U	
91-20-3	NAPHTHALENE	ug/l	10.9 U	10.8 U	
98-95-3	NITROBENZENE	ug/l	10.9 U	10.8 U	
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	10.9 U	10.8 U	
86-30-6	N-NITROSODIPHENYLAMINE	ug/l	10.9 U	10.8 U	
87-86-5	PENTACHLOROPHENOL	ug/l	10.9 U	10.8 U	
85-01-8	PHENANTHRENE	ug/l	10.9 U	10.8 U	
108-95-2	PHENOL	ug/l	10.9 U	10.8 U	
129-00-0	PYRENE	ug/l	10.9 UJ	10.8 UJ	
95-94-3	1,2,4,5-TETRACHLOROBENZENE	ug/l	10.9 U	10.8 U	

				Dup of MW-05-20160121	
Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 2 SDG: H1201		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-05 MW-05-20160121 H1201-07 CTECH H1201 WATER 1/21/2016 14:00 2/23/2016	MW-05 MW-105-20160121 H1201-08 CTECH H1201 WATER 1/21/2016 15:00 2/23/2016	FIELDQC TB-001-20160121 H1201-09 CTECH H1201 WATER 1/21/2016 0:00 2/23/2016
CAS NO.	COMPOUND	UNITS:			
PESTICIDES					
309-00-2	ALDRIN	ug/l	0.0521 U	0.0515 U	
319-84-6	ALPHA BHC	ug/l	0.0521 U	0.0515 U	
959-98-8	ALPHA ENDOSULFAN	ug/l	0.0521 U	0.0515 U	
5103-71-9	ALPHA-CHLORDANE	ug/l	0.0521 U	0.0515 U	
319-85-7	BETA BHC	ug/l	0.0521 U	0.0515 U	
33213-65-9	BETA ENDOSULFAN	ug/l	0.0521 U	0.0515 U	
5103-74-2	BETA-CHLORDANE	ug/l	0.0521 U	0.0515 U	
319-86-8	DELTA BHC	ug/l	0.0521 U	0.0515 U	
60-57-1	DIELDRIN	ug/l	0.0521 U	0.0515 U	
1031-07-8	ENDOSULFAN SULFATE	ug/l	0.0521 U	0.0515 U	
72-20-8	ENDRIN	ug/l	0.0521 U	0.0515 U	
7421-93-4	ENDRIN ALDEHYDE	ug/l	0.0521 U	0.0515 U	
53494-70-5	ENDRIN KETONE	ug/l	0.0521 U	0.0515 U	
58-89-9	GAMMA BHC (LINDANE)	ug/l	0.0521 U	0.0515 U	
76-44-8	HEPTACHLOR	ug/l	0.0521 U	0.0515 U	
1024-57-3	HEPTACHLOR EPOXIDE	ug/l	0.0521 U	0.0515 U	
72-43-5	METHOXYCHLOR	ug/l	0.0521 U	0.0515 U	
72-54-8	P,P'-DDD	ug/l	0.0521 U	0.0515 U	
72-55-9	P,P'-DDE	ug/l	0.0521 U	0.0515 U	
50-29-3	P,P'-DDT	ug/l	0.0521 U	0.0515 U	
8001-35-2	TOXAPHENE	ug/l	0.5208 U	0.5155 U	
PCBs					
12674-11-2	PCB-1016 (AROCOLOR 1016)	ug/l	0.5155 U	0.5208 U	
11104-28-2	PCB-1221 (AROCOLOR 1221)	ug/l	0.5155 U	0.5208 U	
11141-16-5	PCB-1232 (AROCOLOR 1232)	ug/l	0.5155 U	0.5208 U	
53469-21-9	PCB-1242 (AROCOLOR 1242)	ug/l	0.5155 U	0.5208 U	
12672-29-6	PCB-1248 (AROCOLOR 1248)	ug/l	0.5155 U	0.5208 U	
11097-69-1	PCB-1254 (AROCOLOR 1254)	ug/l	0.5155 U	0.5208 U	
11096-82-5	PCB-1260 (AROCOLOR 1260)	ug/l	0.5155 U	0.5208 U	
37324-23-5	PCB-1262 (AROCOLOR 1262)	ug/l	0.5155 U	0.5208 U	
11100-14-4	PCB-1268 (AROCOLOR 1268)	ug/l	0.5155 U	0.5208 U	
HERBICIDES					
94-75-7	2,4-D	ug/l	2.1 U	2.1 U	
93-72-1	SILVEX (2,4,5-TP)	ug/l	2.1 U	2.1 U	
1918-00-9	DICAMBA	ug/l	2.1 U	2.1 U	
120-36-5	DICHLOROPROP	ug/l	2.1 U	2.1 U	
88-85-7	DINOSEB	ug/l	2.1 U	2.1 U	
93-76-5	2,4,5-T	ug/l	2.1 U	2.1 U	
94-82-6	2,4 DB	ug/l	2.1 U	2.1 U	
INORGANICS					
7429-90-5	ALUMINUM	ug/l	149	122	
7440-36-0	ANTIMONY	ug/l	25 U	25 U	
7440-38-2	ARSENIC	ug/l	4.75 J	4.26 J	
7440-39-3	BARIUM	ug/l	180	170	
7440-41-7	BERYLLIUM	ug/l	3 U	3 U	
7440-43-9	CADMIUM	ug/l	3 U	3 U	
7440-70-2	CALCIUM	ug/l	157000	150000	
7440-47-3	CHROMIUM, TOTAL	ug/l	10.68	7.91	
7440-48-4	COBALT	ug/l	15 U	15 U	
7440-50-8	COPPER	ug/l	10 U	10 U	
7439-89-6	IRON	ug/l	2030 J	1100 J	
7439-92-1	LEAD	ug/l	6 U	6 U	
7439-95-4	MAGNESIUM	ug/l	18100	17300	
7439-96-5	MANGANESE	ug/l	494	463	
7439-97-6	MERCURY	ug/l	0.2 U	0.2 U	
7440-02-0	NICKEL	ug/l	6.64 J	6.03 J	
7440-09-7	POTASSIUM	ug/l	3270	3110	
7782-49-2	SELENIUM	ug/l	7.74 J	9.26 J	
7440-22-4	SILVER	ug/l	5 U	5 U	
7440-23-5	SODIUM	ug/l	202000	194000	
7440-28-0	THALLIUM	ug/l	20 U	20 U	
7440-62-2	VANADIUM	ug/l	20 U	20 U	
7440-66-6	ZINC	ug/l	20 U	5.23 J	
57-12-5	CYANIDE	ug/l	4 J	9 J	
FREE CN	CYANIDE (FREE)	ug/l	5 U	5 U	
CAN	CYANIDE, AMENABLE	ug/l	5 U	5 U	

Iberdrola Pavillion Site 2015 Validated Groundwater Data - Round 2 SDG: H1201		Location ID:	MW-05	Dup of MW-05-20160121	
		Sample ID:	MW-05-20160121	MW-05	FIELDQC
		Lab Sample Id:	H1201-07	MW-105-20160121	TB-001-20160121
		Source:	CTECH	H1201-08	H1201-09
		SDG:	H1201	CTECH	CTECH
		Matrix:	WATER	H1201	H1201
		Sampled:	1/21/2016 14:00	WATER	WATER
		Validated:	2/23/2016	1/21/2016 15:00	1/21/2016 0:00
				2/23/2016	2/23/2016
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILE TICs				
110-01-0	Thiophene, tetrahydro-	ug/l			
141-79-7	Mesityl Oxide	ug/l	R	R	
123-42-2	Diacetone Alcohol	ug/l	R	R	
107-70-0	2-Pentanone, 4-Methoxy-4-Methyl-	ug/l	R	R	
111-90-0	Diethylene Glycol Monoethyl Ether	ug/l	5.2 JN	2.9 JN	
UNKNOWN6	unknown6.51	ug/l	R	R	
638-53-9	Tridecanoic Acid	ug/l			
57-11-4	Octadecanoic Acid	ug/l			
74685-33-9	3-Eicosene, (E)-áááááááá	ug/l		3.1 JN	
107-70-0	2-Pentanone, 4-Methoxy-4-Methyl-	ug/l			